



# LAVENDER 40/42 OIL

## Safety Data Sheet

according to the Hazardous Products Regulation (WHMIS 2015)

Issue date: 07/20/2018

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Supersedes: 05/20/2020

Version: 1.2

### SECTION 1: Identification

#### 1.1. Product identifier

Product form : Mixture  
Product name : LAVENDER 40/42 OIL  
CAS-No. : N/A  
Product code : 50-6155-01  
Product group : Trade product

#### 1.2. Recommended use and restrictions on use

#### 1.3. Supplier

The Lebermuth Company  
4004 Technology Drive  
46628 South Bend, IN - United States  
T 574-259-7000 - F 574-258-7450  
[info@lebermuth.com](mailto:info@lebermuth.com) - [www.lebermuth.com](http://www.lebermuth.com)

#### 1.4. Emergency telephone number

Emergency number : CHEMTREC - USA: 800-424-9300 International: +1 703-527-3887 / 1-800-424-9300  
CCN 13010

### SECTION 2: Hazard identification

#### 2.1. Classification of the substance or mixture

##### Classification (GHS CA)

Flammable liquids H227  
Category 4  
Skin corrosion/irritation H315  
Category 2  
Serious eye  
damage/eye irritation H319  
Category 2  
Skin sensitization, H317  
Category 1  
Specific target organ H371  
toxicity (single  
exposure) Category 2

Full text of H statements : see section 16

#### 2.2. GHS Label elements, including precautionary statements

##### GHS CA labeling

Hazard pictograms (GHS CA) :



Signal word (GHS CA) : Warning

Hazard statements (GHS CA) : H227 - Combustible liquid  
H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H319 - Causes serious eye irritation  
H371 - May cause damage to organs

Precautionary statements (GHS CA) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P260 - Do not breathe dust/fume/gas/mist/vapors/spray.  
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.  
P264 - Wash hands, forearms and face thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P272 - Contaminated work clothing should not be allowed out of the workplace.  
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

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contact lenses, if present and easy to do. Continue rinsing.  
P308+P311 - IF exposed or concerned: Call a POISON CENTER or doctor.  
P321 - Specific treatment (see supplemental first aid instruction on this label).  
P332+P313 - If skin irritation occurs: Get medical advice/attention.  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.  
P337+P313 - If eye irritation persists: Get medical advice/attention.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
P370+P378 - In case of fire: Use media other than water to extinguish.  
P403 - Store in a well-ventilated place.  
P405 - Store locked up.  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### 2.3. Other hazards

No additional information available

### 2.4. Unknown acute toxicity (GHS CA)

No data available

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
LINALYL ACETATE		(CAS-No.) 115-95-7	25 – 50	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317
LINALOOL		(CAS-No.) 78-70-6	25 – 50	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1B, H317
CAMPHOR		(CAS-No.) 76-22-2	1 – 5	Flam. Sol. 2, H228 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 2, H371
EUCALYPTOL	1,8-cineol / 1,8-cineole / 1,8-epoxy-para-menthane / 1,8-epoxy-p-menthane / 1,8-oxido-para-menthane / 1,8-oxido-p-menthane / 2-oxa-1,3,3-trimethylbicyclo(2.2.2)octane / 2-Oxabicyclo[2.2.2]octane, 1,3,3-trimethyl- / 8-epoxy-para-menthane / 8-epoxy-p-menthane / cajepulol / cineole / eucalyptol / eucalyptole / eucapur / eukalyptol / FEMA N° 2465 / limonene oxide / para-cineole / para-menthane, 1,8-epoxy- / p-cineole / p-menthane, 1,8-epoxy- / terpan / zedoary oil	(CAS-No.) 470-82-6	1 – 5	Flam. Liq. 3, H226 Eye Irrit. 2B, H320 Skin Sens. 1B, H317
4-TERPINEOL		(CAS-No.) 562-74-3	1 – 5	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Inhalation:vapor), H331 Skin Irrit. 2, H315 Eye Irrit. 2B, H320 STOT SE 3, H336
GERANIOL		(CAS-No.) 106-24-1	0.1 – 1	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317

Full text of hazard classes and H-statements : see section 16

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Call a poison center/doctor/physician if you feel unwell.
First-aid measures general	: IF exposed or concerned: Get medical advice/attention.

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### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after skin contact : Irritation. May cause an allergic skin reaction.  
Symptoms/effects after eye contact : Eye irritation.

### 4.3. Immediate medical attention and special treatment, if necessary

Other medical advice or treatment : Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

### 5.2. Unsuitable extinguishing media

### 5.3. Specific hazards arising from the hazardous product

Fire hazard : Combustible liquid.

### 5.4. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

No additional information available

### 6.2. Methods and materials for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.  
Other information : Dispose of materials or solid residues at an authorized site.

### 6.3. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protective equipment. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes.  
Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

Storage conditions : Store in a well-ventilated place. Keep cool. Store locked up.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

BETA-PINENE* (127-91-3)		
USA - ACGIH	ACGIH OEL TWA [ppm]	20 ppm
USA - ACGIH	Remark (ACGIH)	TLV® Basis: Lung irr. Notations: DSEN; A4 (Not classifiable as a Human Carcinogen)
USA - ACGIH	Regulatory reference	ACGIH 2023
PINENE (80-56-8)		
USA - ACGIH	ACGIH OEL TWA [ppm]	20 ppm
USA - ACGIH	Remark (ACGIH)	TLV® Basis: Lung irr. Notations: DSEN; A4 (Not classifiable as a Human Carcinogen)
USA - ACGIH	Regulatory reference	ACGIH 2023

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.  
Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

#### Hand protection:

Protective gloves

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### Eye protection:

Safety glasses

### Skin and body protection:

Wear suitable protective clothing

### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

### Personal protective equipment symbol(s):



## SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Appearance	: No data available
Color	: COLORLESS TO YELLOW
Odor	: CHARACTERISTIC FRESH, SWEET, HERBACEOUS-FLORAL ODOR
Odor threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 68.9 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapor pressure	: No data available
Vapor pressure at 50°C	: No data available
Relative density	: 0.886 (0.876 – 0.896)
Solubility	: Insoluble.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Explosion limits	: No data available

### 9.2. Other information

VOC content	: 23.4 %
Refractive index	: 1.458 (1.448 – 1.468)

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use.
Conditions to avoid	: Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

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<b>Linalool (78-70-6)</b>	
LD50 oral	2790 mg/kg body weight
ATE CA (oral)	2790 mg/kg body weight
<b>Eucalyptol (470-82-6)</b>	
LD50 oral rat	4500 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 oral	2480 mg/kg body weight
LD50 dermal rat	> 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 15 day(s))
ATE CA (oral)	2480 mg/kg body weight
<b>Terpinen-4-ol (562-74-3)</b>	
LD50 oral	1300 mg/kg body weight
LD50 dermal	2500 mg/kg body weight
LC50 Inhalation - Rat (Vapours)	3 mg/l/4h
ATE CA (oral)	1300 mg/kg body weight
ATE CA (Dermal)	2500 mg/kg body weight
ATE CA (Gases)	700 ppmV/4h
ATE CA (vapors)	3 mg/l/4h
ATE CA (dust,mist)	0.5 mg/l/4h
<b>Geraniol (106-24-1)</b>	
LD50 oral	3600 mg/kg body weight
ATE CA (oral)	3600 mg/kg body weight
<b>1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one (76-22-2)</b>	
LD50 oral	1500 mg/kg body weight
LC50 Inhalation - Rat (Dust/Mist)	1.5 mg/l/4h
ATE CA (oral)	1500 mg/kg body weight
ATE CA (Gases)	4500 ppmV/4h
ATE CA (vapors)	11 mg/l/4h
ATE CA (dust,mist)	1.5 mg/l/4h

Skin corrosion/irritation : Causes skin irritation.  
Serious eye damage/irritation : Causes serious eye irritation.  
Respiratory or skin sensitization : May cause an allergic skin reaction.  
Germ cell mutagenicity : Not classified  
Carcinogenicity : Not classified  
  
Reproductive toxicity : Not classified

STOT-single exposure : May cause damage to organs.

<b>Terpinen-4-ol (562-74-3)</b>	
STOT-single exposure	May cause drowsiness or dizziness.
<b>1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one (76-22-2)</b>	
STOT-single exposure	May cause damage to organs.

: Not classified

STOT-repeated exposure

<b>Eucalyptol (470-82-6)</b>	
NOAEL (oral,rat,90 days)	600 mg/kg body weight Animal: rat, Animal sex: female, Guideline: other:, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents), Guideline: EPA OPPTS 870.3150 (90-Day Oral Toxicity in Non-rodents)

Aspiration hazard : Not classified

Symptoms/effects after skin contact : Irritation. May cause an allergic skin reaction.  
Symptoms/effects after eye contact : Eye irritation.

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### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

Eucalyptol (470-82-6)	
LC50 - Fish [1]	57 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Semi-static system, Fresh water, Experimental value, Nominal concentration)
EC50 - Crustacea [1]	> 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)
ErC50 algae	> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Nominal concentration)
EC50 72h - Algae [1]	> 74 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [1]	> 74 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
BCF - Other aquatic organisms [1]	112 l/kg (Literature study, Fresh weight)
Partition coefficient n-octanol/water (Log Pow)	3.4 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.33 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value)

#### 12.2. Persistence and degradability

Eucalyptol (470-82-6)	
Persistence and degradability	Readily biodegradable in water.

#### 12.3. Bioaccumulative potential

Eucalyptol (470-82-6)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
BCF - Other aquatic organisms [1]	112 l/kg (Literature study, Fresh weight)
Partition coefficient n-octanol/water (Log Pow)	3.4 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.33 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value)

#### 12.4. Mobility in soil

Eucalyptol (470-82-6)	
Surface tension	61.5 mN/m (20 °C, 1 g/l, EU Method A.5: Surface tension)
Ecology - soil	Low potential for adsorption in soil.
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.33 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value)
Partition coefficient n-octanol/water (Log Pow)	3.4 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method)

#### 12.5. Other adverse effects

Ozone	: Not classified
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### SECTION 13: Disposal considerations

#### 13.1. Disposal methods

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
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### SECTION 14: Transport information

#### 14.1. Basic shipping description

In accordance with TDG

#### Transportation of Dangerous Goods

Not regulated for transport

#### 14.2. Transport information/DOT

#### Department of Transport

DOT NA No	: NA1993
Packing group (DOT)	: III - Minor Danger

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DOT Symbols	: D - Proper shipping name for domestic use only, or to and from Canada, G - Identifies PSN requiring a technical name
Transport document description (DOT)	: NA1993 Combustible liquid, n.o.s. (Linalyl acetate, Linalool) - Regulated for Bulk only, Comb Liq, III
Proper Shipping Name (DOT)	: Combustible liquid, n.o.s. (Linalyl acetate, Linalool) - Regulated for Bulk only
Contains Statement Field Selection (DOT)	:
Class (DOT)	: Comb Liq - Combustible liquid
Division (DOT)	: Combustible liquid
Dangerous for the environment	: No
DOT Special Provisions (49 CFR 172.102)	: 148 - For domestic transportation, this entry directs to § 173.66 for: a. The standards for transporting a single bulk hazardous material for blasting by cargo tank motor vehicles (CTMV); and b. The standards for CTMVs capable of transporting multiple hazardous materials for blasting in bulk and non-bulk packagings (i.e., a multipurpose bulk truck (MBT)). IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T1 - 1.5 178.274(d)(2) Normal..... 178.275(d)(2) TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / 1 + a (tr - tf)$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 241
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 60 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 220 L
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
Other information	: No supplementary information available.

### 14.3. Air and sea transport

#### IMDG

Not regulated for transport

#### IATA

Not regulated for transport

## SECTION 15: Regulatory information

### 15.1. National regulations

#### Linalyl acetate (115-95-7)

Listed on the Canadian DSL (Domestic Substances List)

#### Linalool (78-70-6)

Listed on the Canadian DSL (Domestic Substances List)

#### Eucalyptol (470-82-6)

Listed on the Canadian DSL (Domestic Substances List)

#### Terpinen-4-ol (562-74-3)

Listed on the Canadian DSL (Domestic Substances List)

#### 1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one (76-22-2)

Listed on the Canadian DSL (Domestic Substances List)

### 15.2. International regulations

#### Linalyl acetate (115-95-7)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### Linalool (78-70-6)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### Eucalyptol (470-82-6)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

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### Terpinen-4-ol (562-74-3)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

### 1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one (76-22-2)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

## SECTION 16: Other information

SDS Major/Minor : None  
Issue date : 07/20/2018  
Revision date : 06/28/2023  
Supersedes : 05/20/2020

Full text of H-phrases:

H226	Flammable liquid and vapor
H227	Combustible liquid
H228	Flammable solid
H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H320	Causes eye irritation
H331	Toxic if inhaled
H332	Harmful if inhaled
H336	May cause drowsiness or dizziness
H371	May cause damage to organs

SDS Canada (GHS) - Lebermuth

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*