



# OIL, SAGE\*

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations  
Issue date: 08/09/2018 Revision date: 08/09/2023 Supersedes: 08/09/2018

Version: 1.3

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Product name : OIL, SAGE\*  
CAS-No. : N/A  
Product code : 90-2648-07

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

#### 1.3. Supplier

The Lebermuth Company  
4004 Technology Drive  
South Bend, IN 46628 - 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(s) identification

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

##### GHS US classification

|  |   |
|--|---|
| Skin corrosion/irritation Category 2         | Causes skin irritation                              |
| Serious eye damage/eye irritation Category 2 | Causes serious eye irritation                       |
| Skin sensitization, Category 1               | May cause an allergic skin reaction                 |
| Reproductive toxicity Category 2             | Suspected of damaging fertility or the unborn child |

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

##### GHS US labeling

Hazard pictograms (GHS US) :



GHS07

GHS08

Signal word (GHS US) :

Warning

Hazard statements (GHS US) :

Causes skin irritation  
May cause an allergic skin reaction  
Causes serious eye irritation  
Suspected of damaging fertility or the unborn child

Precautionary statements (GHS US) :

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Avoid breathing dust/fume/gas/mist/vapors/spray.  
Wash hands, forearms and face thoroughly after handling.  
Contaminated work clothing must not be allowed out of the workplace.  
Wear protective gloves/protective clothing/eye protection/face protection.  
If on skin: Wash with plenty of water.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If exposed or concerned: Get medical advice/attention.  
Specific treatment (see supplemental first aid instruction on this label).  
If skin irritation occurs: Get medical advice/attention.  
If skin irritation or rash occurs: Get medical advice/attention.  
If eye irritation persists: Get medical advice/attention.  
Take off contaminated clothing and wash it before reuse.  
Wash contaminated clothing before reuse.  
Store locked up.  
Dispose of contents/container to hazardous or special waste collection point, in accordance

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with local, regional, national and/or international regulation.

### 2.3. Other hazards which do not result in classification

No additional information available

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

Not applicable

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name            | Product identifier   | %       | GHS US classification   |
|-----------------|----------------------|---------|---|
| LINALYL ACETATE | (CAS-No.) 115-95-7   | 5 – 10  | Flam. Liq. 4, H227<br>Skin Irrit. 2, H315<br>Eye Irrit. 2B, H320<br>Skin Sens. 1B, H317 |
| LINALOOL        | (CAS-No.) 78-70-6    | 1 – 5   | Flam. Liq. 4, H227<br>Skin Irrit. 2, H315<br>Eye Irrit. 2A, H319<br>Skin Sens. 1B, H317 |
| DIHYDROMYRCENOL | (CAS-No.) 18479-58-8 | 1 – 5   | Flam. Liq. 4, H227<br>Skin Irrit. 2, H315<br>Eye Irrit. 2A, H319                        |
| NERYL ACETATE   | (CAS-No.) 141-12-8   | 1 – 5   | Skin Sens. 1B, H317   |
| LIMONENE        | (CAS-No.) 5989-27-5  | 1 – 5   | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Skin Sens. 1B, H317<br>Asp. Tox. 1, H304   |
| GERANYL ACETATE | (CAS-No.) 105-87-3   | 1 – 5   | Skin Irrit. 2, H315<br>Skin Sens. 1B, H317  |
| GAMMA-TERPINENE | (CAS-No.) 99-85-4    | 0.1 – 1 | Flam. Liq. 3, H226<br>Repr. 2, H361<br>Asp. Tox. 1, H304                                |
| GERANIOL        | (CAS-No.) 106-24-1   | 0.1 – 1 | Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>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 general            | : IF exposed or concerned: Get medical advice/attention.   |
| 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.  |

### 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

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

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

### 5.2. Specific hazards arising from the chemical

Reactivity : The product is non-reactive under normal conditions of use, storage and transport.

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### 5.3. 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

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material 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.

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray.

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

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

|                                     |
|-------------------------------------|
| <b>OIL, SAGE* (N/A)</b>             |
| No additional information available |
| <b>GERANIOL (106-24-1)</b>          |
| No additional information available |
| <b>LINALYL ACETATE (115-95-7)</b>   |
| No additional information available |
| <b>GAMMA-TERPINENE (99-85-4)</b>    |
| No additional information available |
| <b>LINALOOL (78-70-6)</b>           |
| No additional information available |
| <b>NERYL ACETATE (141-12-8)</b>     |
| No additional information available |
| <b>LIMONENE (5989-27-5)</b>         |
| No additional information available |
| <b>GERANYL ACETATE (105-87-3)</b>   |
| No additional information available |
| <b>DIHYDROMYRCENOL (18479-58-8)</b> |
| No additional information available |

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### 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

#### Eye protection:

Safety glasses

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.



## SECTION 9: Physical and chemical properties

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

Physical state : Liquid  
Color : COLORLESS TO PALE YELLOW LIQUID  
Odor : CHARACTERISTIC, MATCHING THE RETAINER SAMPLE.  
Odor threshold : No data available  
pH : No data available  
Melting point : Not applicable  
Freezing point : No data available  
Boiling point : No data available  
Flash point : 95 °C  
Relative evaporation rate (butyl acetate=1) : No data available  
Flammability (solid, gas) : Not applicable.  
Vapor pressure : No data available  
Relative vapor density at 20°C : No data available  
Relative density : 0.914 (0.904 – 0.924)  
Solubility : Insoluble.  
Partition coefficient n-octanol/water (Log Pow) : No data available  
Auto-ignition temperature : No data available  
Decomposition temperature : No data available  
Viscosity, kinematic : No data available  
Viscosity, dynamic : No data available  
Explosion limits : No data available  
Explosive properties : No data available  
Oxidizing properties : No data available

### 9.2. Other information

Refractive index : 1.449 (1.439 – 1.459)

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

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### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

No additional information available

### 10.6. 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

#### GERANIOL (106-24-1)

|               |                        |
|---------------|------------------------|
| ATE US (oral) | 3600 mg/kg body weight |
|---------------|------------------------|

#### GAMMA-TERPINENE (99-85-4)

|               |                        |
|---------------|------------------------|
| ATE US (oral) | 3650 mg/kg body weight |
|---------------|------------------------|

#### LINALOOL (78-70-6)

|               |                        |
|---------------|------------------------|
| ATE US (oral) | 2790 mg/kg body weight |
|---------------|------------------------|

#### LIMONENE (5989-27-5)

|                    |   |
|--------------------|---|
| LD50 oral rat      | > 2000 mg/kg body weight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Female, Experimental value, Oral, 14 day(s)) |
| LD50 dermal rabbit | > 5000 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Read-across, Dermal, 7 day(s))                             |

#### GERANYL ACETATE (105-87-3)

|               |                        |
|---------------|------------------------|
| LD50 oral rat | 6300 mg/kg (Rat, Oral) |
| ATE US (oral) | 6300 mg/kg body weight |

#### DIHYDROMYRCENOL (18479-58-8)

|               |                        |
|---------------|------------------------|
| ATE US (oral) | 3600 mg/kg body weight |
|---------------|------------------------|

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 : Suspected of damaging fertility or the unborn child.

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

#### GERANYL ACETATE (105-87-3)

|                          |   |
|--------------------------|---|
| NOAEL (oral,rat,90 days) | 2000 mg/kg body weight Animal: rat, Guideline: other: |
|--------------------------|---|

Aspiration hazard : Not classified  
Viscosity, kinematic : No data available

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

Symptoms/effects after eye contact : Eye irritation.

### 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.

| LIMONENE (5989-27-5)       |   |
|----------------------------|---|
| LC50 - Fish [1]            | 720 µg/l (Equivalent or similar to OECD 203, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value)                                       |
| EC50 - Crustacea [1]       | 0.307 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Semi-static system, Fresh water, Experimental value, GLP)                         |
| LC50 - Fish [2]            | 702 µg/l Test organisms (species): Pimephales promelas  |
| EC50 - Crustacea [2]       | 0.51 mg/l Test organisms (species): Daphnia magna   |
| GERANYL ACETATE (105-87-3) |   |
| LC50 - Fish [1]            | 68.12 mg/l (DIN 38412: German standard methods for the examination of water, waste water and sludge, 96 h, Leuciscus idus, Static system, Fresh water, Read-across) |
| EC50 - Crustacea [1]       | 14.1 mg/l (EU Method C.2, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)   |

#### 12.2. Persistence and degradability

| LIMONENE (5989-27-5)          |   |
|-------------------------------|---|
| Persistence and degradability | Readily biodegradable in water.               |
| ThOD                          | 3.29 g O <sub>2</sub> /g substance            |
| GERANYL ACETATE (105-87-3)    |   |
| Persistence and degradability | Readily biodegradable in water.               |
| ThOD                          | 2.6 g O <sub>2</sub> /g substance             |
| DIHYDROMYRCENOL (18479-58-8)  |   |
| Persistence and degradability | Biodegradability in water: no data available. |

#### 12.3. Bioaccumulative potential

| LIMONENE (5989-27-5)                            |   |
|---|---|
| BCF - Fish [1]                                  | 864.8 l/kg (BCFBAF v3.01, Pisces, QSAR, Fresh weight)                                     |
| Partition coefficient n-octanol/water (Log Pow) | 4.38 (Experimental value, Equivalent or similar to OECD 117, 37 °C)                       |
| Bioaccumulative potential                       | Potential for bioaccumulation (4 ≤ Log Kow ≤ 5).  |
| GERANYL ACETATE (105-87-3)                      |   |
| BCF - Other aquatic organisms [1]               | 1500 (Estimated value)  |
| Partition coefficient n-octanol/water (Log Pow) | 4.04 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method) |
| Bioaccumulative potential                       | Potential for bioaccumulation (4 ≤ Log Kow ≤ 5).  |
| DIHYDROMYRCENOL (18479-58-8)                    |   |
| Partition coefficient n-octanol/water (Log Pow) | 3.47 (Estimated value)  |
| Bioaccumulative potential                       | Low potential for bioaccumulation (Log Kow < 4).  |

#### 12.4. Mobility in soil

| LIMONENE (5989-27-5)                                       |  |
|--|--|
| Surface tension  | No data available in the literature                          |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 3.049 – 3.801 (log Koc, SRC PCKOCWIN v2.0, Calculated value) |
| Ecology - soil   | Low potential for mobility in soil.                          |
| GERANYL ACETATE (105-87-3)                                 |  |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 3.06 (log Koc, SRC PCKOCWIN v2.0, Calculated value)          |

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|                                     |   |
|-------------------------------------|---|
| <b>GERANYL ACETATE (105-87-3)</b>   |   |
| Ecology - soil                      | Low potential for mobility in soil.                   |
| <b>DIHYDROMYRCENOL (18479-58-8)</b> |   |
| Ecology - soil                      | No (test)data on mobility of the substance available. |

### 12.5. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

## SECTION 14: Transport information

### Department of Transportation (DOT)

In accordance with DOT

Not regulated

### Transportation of Dangerous Goods

Not applicable

### Transport by sea

Not applicable

### Air transport

Not applicable

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

No additional information available

### 15.2. International regulations

#### CANADA

No additional information available

|   |
|---|
| <b>LINALYL ACETATE (115-95-7)</b>                     |
| Listed on the Canadian DSL (Domestic Substances List) |
| <b>GAMMA-TERPINENE (99-85-4)</b>                      |
| Listed on the Canadian DSL (Domestic Substances List) |
| <b>LINALOOL (78-70-6)</b>                             |
| Listed on the Canadian DSL (Domestic Substances List) |
| <b>NERYL ACETATE (141-12-8)</b>                       |
| Listed on the Canadian DSL (Domestic Substances List) |
| <b>GERANYL ACETATE (105-87-3)</b>                     |
| Listed on the Canadian DSL (Domestic Substances List) |
| <b>DIHYDROMYRCENOL (18479-58-8)</b>                   |
| Listed on the Canadian DSL (Domestic Substances List) |

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### EU-Regulations

No additional information available

### National regulations

#### LINALYL ACETATE (115-95-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### GAMMA-TERPINENE (99-85-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### LINALOOL (78-70-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### NERYL ACETATE (141-12-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on INSQ (Mexican National Inventory of Chemical Substances)


#### GERANYL ACETATE (105-87-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### DIHYDROMYRCENOL (18479-58-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on INSQ (Mexican National Inventory of Chemical Substances)

### 15.3. US State regulations

 **WARNING:** This product can expose you to furocoumarines (e. g. trioxysalen (inn), 8-methoxypsoralen, 5-methoxypsoralen) except for normal content in natural essences used. in sunprotection and in bronzing products, furocoumarines shall be below 1 mg/kg, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

This product can expose you to myrcene, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

## SECTION 16: Other information

Revision date : 08/09/2023

Full text of H-phrases:

|      |   |
|------|---|
| H226 | Flammable liquid and vapor                          |
| H227 | Combustible liquid                                  |
| H304 | May be fatal if swallowed and enters airways        |
| 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                               |
| H361 | Suspected of damaging fertility or the unborn child |

SDS US (GHS HazCom 2012) - 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.*