



# OIL, SANDALWOOD & AMBER\*

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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Supersedes: 12/04/2018

Version: 1.3

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Product name : OIL, SANDALWOOD & AMBER\*  
CAS-No. : N/A  
Product code : 90-2653-03

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

No additional information available

#### 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

Serious eye damage/eye irritation Category 2  
Skin sensitization, Category 1

Causes serious eye irritation  
May cause an allergic skin reaction

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

##### GHS US labeling

Hazard pictograms (GHS US)

:



GHS07

Signal word (GHS US)

: Warning

Hazard statements (GHS US)

: May cause an allergic skin reaction  
Causes serious eye irritation

Precautionary statements (GHS US)

: Avoid breathing dust/fume/gas/mist/vapours/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.  
Specific treatment (see supplemental first aid instruction on this label).  
If skin irritation or rash occurs: Get medical advice/attention.  
If eye irritation persists: Get medical advice/attention.  
Wash contaminated clothing before reuse.  
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 which do not result in classification

No additional information available

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

Not applicable

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### SECTION 3: Composition/Information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	GHS US classification
CEDARWOOD OIL	(CAS-No.) 8000-27-9	5 - 10	Asp. Tox. 1, H304
PATCHOULI OIL	(CAS-No.) 8014-09-3	1 - 5	Asp. Tox. 1, H304
CITRONELLOL	(CAS-No.) 106-22-9	1 - 5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
ETHYL VANILLIN	(CAS-No.) 121-32-4	1 - 5	Eye Irrit. 2B, H320
2-Ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	(CAS-No.) 28219-61-6	1 - 5	Eye Irrit. 2A, H319
ACETYL CEDRENE	(CAS-No.) 32388-55-9	1 - 5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317
METHYL GAMMA-IONONE	(CAS-No.) 127-51-5	1 - 5	Skin Sens. 1B, H317
5-(2,2,3-Trimethyl-3-cyclopentenyl)-3-methylpentan-2-ol	(CAS-No.) 65113-99-7	1 - 5	Eye Irrit. 2A, H319
LINALYL ACETATE	(CAS-No.) 115-95-7	0.1 - 1	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
LINALOOL	(CAS-No.) 78-70-6	0.1 - 1	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
OPOPONAX RESIN	(CAS-No.) 9000-78-6; 93384-32-8	0.1 - 1	Skin Irrit. 2, H315 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.

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

- Symptoms/effects after skin contact : 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.

#### 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/vapours/spray.

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### 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

For containment : Collect spillage.  
Methods for cleaning up : Take up liquid spill into absorbent material.  
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. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.  
Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. 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.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### BACDANOL (28219-61-6)

Not applicable

#### CEDARWOOD VIRGINIA OIL (8000-27-9)

Not applicable

#### VERTOFIX (ACETYL CEDRENE) (32388-55-9)

Not applicable

#### METHYL GAMMA-IONONE EXTRA (127-51-5)

Not applicable

#### ETHYL VANILLIN NF (121-32-4)

Not applicable

#### LINALOOL 90 (78-70-6)

Not applicable

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

Not applicable

#### Opoponax resinoid (9000-78-6; 93384-32-8)

Not applicable

#### PATCHOULI INDONESIAN OIL (8014-09-3)

Not applicable

#### CITRONELLOL (106-22-9)

Not applicable

#### SANDALORE (65113-99-7)

Not applicable

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

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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 insufficient ventilation, wear suitable respiratory equipment

## SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
	: YELLOW TO AMBER
Odor	: CHARACTERISTIC, MATCHING THE RETAINER SAMPLE.
Odor threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 124 °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	: 0.93 (0.920 - 0.940)
Solubility	: Insoluble.
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 : 1.461 (1.451 - 1.471)

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

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

### 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).

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### 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 : Not classified

#### VERTOFIX (ACETYL CEDRENE) (32388-55-9)

LD50 oral rat	> 2000 mg/kg (Rat, Oral)
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LD50 dermal rabbit	> 2000 mg/kg (Rabbit, Dermal)
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ATE US (oral)	4500 mg/kg body weight
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#### ETHYL VANILLIN NF (121-32-4)

ATE US (oral)	3000 mg/kg body weight
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#### LINALOOL 90 (78-70-6)

LD50 oral rat	2790 mg/kg (Rat)
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LD50 dermal rat	5610 mg/kg (Rat)
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LD50 dermal rabbit	> 5000 mg/kg (Rabbit)
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ATE US (oral)	2790 mg/kg body weight
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ATE US (dermal)	5610 mg/kg body weight
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#### OpoPONAX resinoid (9000-78-6; 93384-32-8)

ATE US (dermal)	3600 mg/kg body weight
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#### CITRONELLOL (106-22-9)

LD50 oral rat	3450 mg/kg (Rat, Inconclusive, insufficient data, Oral)
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LD50 dermal rabbit	2650 mg/kg (Rabbit, Inconclusive, insufficient data, Dermal)
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ATE US (oral)	3450 mg/kg body weight
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ATE US (dermal)	2650 mg/kg body weight
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Skin corrosion/irritation	: Not classified
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 : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

Symptoms/effects after skin contact : 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.

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### LINALOOL 90 (78-70-6)

EC50 Daphnia 1	59 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna)
EC50 other aquatic organisms 1	>= 100 mg/l (3 h; Activated sludge)
LC50 fish 2	27.8 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Salmo gairdneri)
Threshold limit algae 1	88.3 mg/l (EC50; 96 h)

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

LC50 fish 1	11 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Cyprinus carpio)
EC50 Daphnia 1	15 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna)

### CITRONELLOL (106-22-9)

LC50 fish 1	10 - 22 mg/l (96 h, Leuciscus idus)
EC50 Daphnia 1	17 mg/l (48 h, Daphnia magna)

## 12.2. Persistence and degradability

### VERTOFIX (ACETYL CEDRENE) (32388-55-9)

Persistence and degradability	Biodegradability in water: no data available.
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### LINALOOL 90 (78-70-6)

Persistence and degradability	Readily biodegradable in water.
Biochemical oxygen demand (BOD)	1.531 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	2.808 g O <sub>2</sub> /g substance

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

Persistence and degradability	Readily biodegradable in water.
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### CITRONELLOL (106-22-9)

Persistence and degradability	Readily biodegradable in water.
Chemical oxygen demand (COD)	2.05 g O <sub>2</sub> /g substance
ThOD	2.961 g O <sub>2</sub> /g substance

## 12.3. Bioaccumulative potential

### VERTOFIX (ACETYL CEDRENE) (32388-55-9)

Bioaccumulative potential	No bioaccumulation data available.
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### LINALOOL 90 (78-70-6)

Log Pow	2.84 - 3.145
Bioaccumulative potential	Bioaccumable.

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

Log Pow	3.93 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

### CITRONELLOL (106-22-9)

Log Pow	3.41 - 3.91
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## 12.4. Mobility in soil

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

Ecology - soil	Adsorbs into the soil.
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## 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.

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### 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

<b>BACDANOL (28219-61-6)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory
<b>CEDARWOOD VIRGINIA OIL (8000-27-9)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory
<b>VERTOFIX (ACETYL CEDRENE) (32388-55-9)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory
<b>METHYL GAMMA-IONONE EXTRA (127-51-5)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory
<b>ETHYL VANILLIN NF (121-32-4)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory
<b>LINALOOL 90 (78-70-6)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory
<b>LINALYL ACETATE SPECIAL (115-95-7)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory
<b>Opoponax resinoid (9000-78-6; 93384-32-8)</b>
Not listed on the United States TSCA (Toxic Substances Control Act) inventory
<b>PATCHOULI INDONESIAN OIL (8014-09-3)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory
<b>CITRONELLOL (106-22-9)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory
<b>SANDALORE (65113-99-7)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 15.2. International regulations

##### CANADA

<b>BACDANOL (28219-61-6)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>CEDARWOOD VIRGINIA OIL (8000-27-9)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>VERTOFIX (ACETYL CEDRENE) (32388-55-9)</b>
Listed on the Canadian DSL (Domestic Substances List)

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### METHYL GAMMA-IONONE EXTRA (127-51-5)

Listed on the Canadian DSL (Domestic Substances List)

### ETHYL VANILLIN NF (121-32-4)

Listed on the Canadian DSL (Domestic Substances List)

### LINALOOL 90 (78-70-6)

Listed on the Canadian DSL (Domestic Substances List)

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

Listed on the Canadian DSL (Domestic Substances List)

### OpoPONAX resinoid (9000-78-6; 93384-32-8)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

### PATCHOULI INDONESIAN OIL (8014-09-3)

Listed on the Canadian DSL (Domestic Substances List)

### CITRONELLOL (106-22-9)

Listed on the Canadian DSL (Domestic Substances List)

### SANDALORE (65113-99-7)

Listed on the Canadian DSL (Domestic Substances List)


### EU-Regulations

No additional information available

### National regulations

No additional information available

### 15.3. US State regulations

 **WARNING:** 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 : 05/21/2020

Full text of H-phrases:

H227	Combustible liquid
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H320	Causes eye irritation

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.*