



# OIL, CEDAR LEATHER PF\*

## Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

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Version: 1.2

### SECTION 1: Identification

#### 1.1. Product identifier

Product form : Mixture  
Product name : OIL, CEDAR LEATHER PF\*  
CAS-No. : N/A  
Product code : 93-0128-35  
Product group : Trade product

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

No additional information available

#### 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)

Skin corrosion/irritation Category 2 H315 Causes skin irritation  
Serious eye damage/eye irritation Category 2A H319 Causes serious eye irritation  
Skin sensitization, category 1B H317 May cause an allergic skin reaction  
Reproductive toxicity Category 2 H361 Suspected of damaging fertility or the unborn child

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) : H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H319 - Causes serious eye irritation  
H361 - Suspected of damaging fertility or the unborn child

Precautionary statements (GHS CA) : P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 - Wash hands, forearms and face thoroughly after handling.  
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 contact lenses, if present and easy to do. Continue rinsing.  
P308+P313 - IF exposed or concerned: Get medical advice/attention.  
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.  
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.

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### 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)
BENZYL BENZOATE	benylate / benzoate / benzoic acid, benzyl ester / benzoic acid, phenylmethyl ester / benzyl alcohol, benzoic ester / benzyl benzenecarboxylate / benzyl benzoate / benzyl benzoate USP 600040 / benzyl phenylformate / benzylets / FEMA number 2138	(CAS-No.) 120-51-4	25 - 50	Acute Tox. 4 (Oral), H302
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone		(CAS-No.) 54464-57-2	10 - 25	Skin Irrit. 2, H315 Skin Sens. 1B, H317
DIHYDROMYRCENOL	2,6-dimethyloct-7-en-2-ol / 7-octen-2-ol, 2,6-dimethyl- / dihydromyrcenol	(CAS-No.) 18479-58-8	5 - 10	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319
1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylcyclopenta-γ-2-benzopyran		(CAS-No.) 1222-05-5	5 - 10	Flam. Liq. 4, H227
LINALYL ACETATE	1,5-dimethyl-1-vinyl-4-hexenyl acetate / 1,6-octadien-3-ol, 3,7-dimethyl-, acetate / 3,7-dimethyl-1,6-octadien-3-ol acetate / 3,7-dimethyl-1,6-octadien-3-yl acetate / acetic acid linalool ester / bergamiol / bergamol / bergamot mint oil / ex bois de rose (synthetic) / FEMA No. 2636 / licareol acetate / linalol acetate / linalool acetate / linalyl acetate / linalyl acetate synthetic	(CAS-No.) 115-95-7	1 - 5	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2B, H320 Skin Sens. 1B, H317
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
METHYL DIHYDROAJASMONATE	cyclopentaneacetic acid, 3-oxo-2-pentyl-, methyl ester / methyl (2-pentyl-3-oxocyclopentyl)acetate / methyl 3-oxo-2-pentylcyclopentaneacetate / methyl dihydrojasmonate	(CAS-No.) 24851-98-7	1 - 5	Not classified
1-(2-tert.-Butyl cyclohexyloxy)-2-butanol		(CAS-No.) 139504-68-0	1 - 5	Eye Irrit. 2B, H320
LINALOOL	(+/-)-linalool / 1,6-octadien-3-ol, 3,7-dimethyl- / 2,6-dimethyl-2,7-octadiene-6-ol / 2,6-dimethylocta-2,7-dien-6-ol / 3,7-dimethyl-1,6-octadien-3-ol / 3,7-dimethyl-3-hydroxy-1,6-octadiene,dl- / 3,7-dimethylocta-1,6-dien-3-ol / allo-cimanol / beta-linalool / coriandrol / dl-3,7-dimethyl-3-hydroxy-1,6-octadiene / linalool / linalyl alcohol / Substances with a flash-point above 60 °C and not more than 100 °C / Substances with a flash-point above 60 °C and not more than 100 °C, which do not belong to another class	(CAS-No.) 78-70-6	1 - 5	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1B, H317
3,7-Dimethyl-1,6-nonadien-3-ol		(CAS-No.) 10339-55-6	1 - 5	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319

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Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
ORANGE TERPENES	(+)-1-methyl-4-isopropenyl-1-cyclohexene / (+)-4-isopropenyl-1-methylcyclohexene / (+)-cajeputene / (+)-carvene / (+)-citrene / (+)-paramentha-1,8-diene / (+)-p-mentha-1,8-diene / (+)-R-limonene / (R)-(+)-4-isopropenyl-1-methyl-1-cyclohexene / (R)-(+)-limonene / (R)-1-methyl-4-(1-methylethenyl)cyclohexene / (R)-4-isopropenyl-1-methyl-1-cyclohexene / (R)-p-mentha-1,8-diene / 1,8-menthadiene, D- / 1-methyl-4-(1-methylethenyl)cyclohexene, (R) / cyclohexene, 1-methyl-4-(1-methylethenyl)-, (R)- / cyclohexene, 1-methyl-4-(1-methylethenyl)-, (theta)- / cyclohexene, 4-isopropenyl-1-methyl- / D-(+)-limonene / dextro-limonene / dextro-para-mentha-1,8-diene / d-limonene / D-para-mentha-1,8-diene / D-p-mentha-1,8-diene / limonene, (R)-(+)- / limonene, D-(+)- / limonene, dextro- / para-mentha-1,8-diene, (R)-(+)- / p-mentha-1,8-diene, (R)-(+)- / p-mentha-1,8-diene, D- / refchole	(CAS-No.) 68647-72-3	1 - 5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304
PATCHOULI OIL		(CAS-No.) 8014-09-3	1 - 5	Asp. Tox. 1, H304
Allyl (cyclohexyloxy)acetate		(CAS-No.) 68901-15-5	1 - 5	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302
7-acetyl-1,1,3,4,4,6-hexamethyltetralin		(CAS-No.) 1506-02-1	1 - 5	Acute Tox. 4 (Oral), H302
CEDROL		(CAS-No.) 77-53-2	0.1 - 1	Flam. Liq. 4, H227
6,7-Dihydro-1,1,2,3,3-pentamethyl-4(5H)-indanone		(CAS-No.) 33704-61-9	0.1 - 1	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1B, H317
2-tert-Butylcyclohexyl acetate		(CAS-No.) 88-41-5	0.1 - 1	Flam. Liq. 4, H227
p-t-Butyl-α-methylhydrocinnamic aldehyde	2-(4-tert-butylbenzyl)propionaldehyde / 2-(4-tertiary-butylbenzyl)propionaldehyde / 2-methyl-3-(4-(1,1-dimethylethyl)phenyl)propanal / 3-(para-tert-butylphenyl)-2-methylpropanal / 3-(p-tert-butylphenyl)-2-methylpropanal / 4-(1,1-dimethylethyl)-alpha-methylbenzenepropanal / alpha-methyl, beta-(p-tert-butylphenyl)propionaldehyde / alpha-methyl-p-(tert-butyl)hydrocinnamal / alpha-methyl-p-(tert-butyl)hydrocinnamaldehyde / alpha-methyl-para-(tertiary-butyl)hydrocinnamal / alpha-methyl-para-(tertiary-butyl)hydrocinnamaldehyde / benzenepropanal, 4-(1,1-dimethylethyl)-alpha-methyl- / butylphenyl methylpropional / hydrocinnamaldehyde, p-tert-butyl-alpha- / hydrocinnamaldehyde, p-tert-butyl-alpha-methyl- / lilestralis / LILIAL / LILYAL / lysmeral extra / para-tert-butyl-alpha-methylhydrocinnamic aldehyde / para-tertiary-butyl-alpha-methylhydrocinnamaldehyde / para-tertiary-butyl-alpha-methylhydrocinnamic aldehyde / propionaldehyde, beta-(4-tert-butylphenyl)-alpha-methyl- / protectol pp / p-tert-butyl-alpha-methylhydrocinnamaldehyde / p-tert-butyl-alpha-methylhydrocinnamic aldehyde	(CAS-No.) 80-54-6	0.1 - 1	Acute Tox. 4 (Oral), H302 Acute Tox. 1 (Inhalation:vapour), H330 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Repr. 2, H361
COUMARIN		(CAS-No.) 91-64-5	0.1 - 1	Acute Tox. 4 (Oral), H302 Skin Sens. 1B, H317
3-(o-Ethylphenyl)-2,2-dimethylpropionaldehyde		(CAS-No.) 67634-14-4	0.1 - 1	Not classified
Methyl atrarate		(CAS-No.) 4707-47-5	0.1 - 1	Not classified
2,3,3-Trimethylindanone		(CAS-No.) 54440-17-4	0.1 - 1	Not classified

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Allyl (3-methylbutoxy)acetate		(CAS-No.) 67634-00-8	0.1 - 1	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315
4-Methyl-3-decen-5-ol		(CAS-No.) 81782-77-6	0.1 - 1	Flam. Liq. 4, H227
GERANYL ACETATE	2,6-dimethyl-2,6-octadien-8-yl ethanoate, trans- / 2,6-dimethyl-2,6-octadiene-8-yl acetate, trans / 2,6-octadien-1-ol, 3,7-dimethyl-, acetate, (2E)- / 2,6-octadien-1-ol, 3,7-dimethyl-, acetate, (E)- / 2,6-octadien-1-ol, 3,7-dimethyl-, acetate, trans- / 3,7-dimethyl-2,6-octadien-1-ol, acetate, trans- / 3,7-dimethyl-2,6-octadienyl acetate, trans- / 3,7-dimethyl-2-trans, 6-octadienyl acetate / 3,7-dimethylocta-2,6-dien-1-yl-acetate, trans / 3,7-dimethyl-trans-2,6-octadien-1-yl-acetate, mixture of isomers / acetic acid, geraniol ester, trans / bay pine (oyster) oil, trans / beta-geranyl acetate / FEMA number 2509 / geraniol acetate, trans / geranyl acetate / geranyl acetate, trans- / geranyl ethanoate, trans / trans-, geranyl ethanoate / trans-2,6-dimethyl-2,6-octadien-8-yl ethanoate / trans-3,7-dimethyl-2,6-octadien-1-ol, acetate / trans-3,7-dimethyl-2,6-octadien-1-yl acetate / trans-3,7-dimethyl-2,6-octadienyl acetate / trans-3,7-dimethylocta-2,6-dien-1-yl-acetate	(CAS-No.) 105-87-3	0.1 - 1	Skin Irrit. 2, H315 Skin Sens. 1B, H317
Naphtho[2,1-b]furan, dodecahydro-3a,6,6,9a-tetramethyl-, (3aR,5aS,9aS,9bR)-		(CAS-No.) 6790-58-5	0.1 - 1	Not classified
7-Methyl-2H-benzo-1,5-dioxepin-3(4H)-one		(CAS-No.) 28940-11-6	0.1 - 1	Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H336
CITRAL		(CAS-No.) 5392-40-5	0.1 - 1	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1B, H317
2-(Methylpropyl)quinoline		(CAS-No.) 1333-58-0	< 0.1	Not classified
Dimethylcyclohex-3-ene-1-carbaldehyde (isomer unspecified)	3-cyclohexene-1-carboxaldehyde, dimethyl- / dimethyl-3-cyclohexene-1-carboxaldehyde / dimethylcyclohex-3-ene-1-carbaldehyde / trivertal	(CAS-No.) 27939-60-2	< 0.1	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1B, H317
(E)-1-(2,6,6-Trimethyl-2-cyclohexen-1-yl)-2-buten-1-one		(CAS-No.) 24720-09-0	< 0.1	Acute Tox. 4 (Oral), H302 Skin Sens. 1B, H317
NERYL ACETATE		(CAS-No.) 141-12-8	< 0.1	Skin Irrit. 2, H315 Skin Sens. 1B, 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.

### 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.

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### 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

No additional information available

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

No additional information available

#### 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. 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/vapours/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

**CITRAL (5392-40-5)**

#### USA - ACGIH - Occupational Exposure Limits

Local name	Citral
ACGIH TWA (ppm)	5 ppm
Remark (ACGIH)	Body weight eff; URT irr; eye dam; Skin; DSEN; A4 (Not classifiable as a Human Carcinogen: Agents which cause concern that they could be carcinogenic for humans but which cannot be assessed conclusively because of a lack of data. In vitro or animal studies do not provide indications of carcinogenicity which are sufficient to classify the agent into one of the other categories)

#### 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:

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Wear respiratory protection.

### SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Appearance	: No data available
Color	: Mixture contains one or more component(s) which have the following colour(s): White Colourless Colourless to light yellow Colourless to yellow
Odor	: There may be no odour warning properties, odour is subjective and inadequate to warn of overexposure. Mixture contains one or more component(s) which have the following odour: Mild odour Pleasant odour Aromatic odour Lemon odour Floral odour Strong odour Sweet odour Fruity odour Characteristic odour
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	: 98 °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	: 1.003 (0.993 - 1.013)
Solubility	: Insoluble.
Log Pow	: No data available
Explosion limits	: No data available

#### 9.2. Other information

Refractive index	: 1.517 (1.507 - 1.527)
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### 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	: None under recommended storage and handling conditions (see section 7).
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

COUMARIN CRYSTALS (91-64-5)	
LD50 oral	500 mg/kg body weight
ATE CA (oral)	500 mg/kg body weight
TONALID (1506-02-1)	
LD50 oral	1000 mg/kg body weight
ATE CA (oral)	1000 mg/kg body weight
ALLYL AMYL GLYCOLATE PURE (67634-00-8)	
LD50 oral	730 mg/kg body weight
ATE CA (oral)	730 mg/kg body weight

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<b>DAMASCONE ALPHA (24720-09-0)</b>	
LD50 oral	1670 mg/kg body weight
LD50 dermal	2900 mg/kg body weight
ATE CA (oral)	1670 mg/kg body weight
ATE CA (Dermal)	2900 mg/kg body weight
<b>BENZYL BENZOATE (120-51-4)</b>	
LD50 oral rat	> 2000 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male/female, Experimental value, Oral, 14 day(s))
LD50 oral	1500 mg/kg body weight
LD50 dermal rabbit	> 2 ml/kg (Modification of Draize 1959 method, 4 h, Rabbit, Experimental value, Dermal)
LD50 dermal	4000 mg/kg body weight
ATE CA (oral)	1500 mg/kg body weight
ATE CA (Dermal)	4000 mg/kg body weight
<b>CITRAL SYNTHETIC (5392-40-5)</b>	
LD50 dermal	2250 mg/kg body weight
ATE CA (Dermal)	2250 mg/kg body weight
<b>CASHMERAN (33704-61-9)</b>	
LD50 oral	2900 mg/kg body weight
ATE CA (oral)	2900 mg/kg body weight
<b>CYCLOGALBANIFF (68901-15-5)</b>	
LD50 oral	682 mg/kg body weight
ATE CA (oral)	682 mg/kg body weight
<b>DIHYDROMYRCENOL (18479-58-8)</b>	
LD50 oral	3600 mg/kg body weight
ATE CA (oral)	3600 mg/kg body weight
<b>ETHYL LINALOOL (10339-55-6)</b>	
LD50 oral	5000 mg/kg body weight
ATE CA (oral)	5000 mg/kg body weight
<b>GERANYL ACETATE PRIME (105-87-3)</b>	
LD50 oral rat	6300 mg/kg (Rat, Oral)
ATE CA (oral)	6300 mg/kg body weight
<b>LILIAL, PURE (80-54-6)</b>	
LD50 oral rat	1390 mg/kg (Equivalent or similar to OECD 401, Rat, Male/female, Experimental value, Oral, 14 day(s))
LD50 oral	1390 mg/kg body weight
LD50 dermal rat	> 2000 mg/kg (Equivalent or similar to OECD 402, Rat, Male/female, Experimental value, Dermal, 14 day(s))
LC50 inhalation rat (mg/l)	> 0.18 mg/l (IRT (inhalation risk test), 7 h, Rat, Male/female, Experimental value, Inhalation (vapours), 14 day(s))
ATE CA (oral)	1390 mg/kg body weight
ATE CA (vapours)	0.05 mg/l/4h
<b>LINALOOL 90 (78-70-6)</b>	
LD50 oral rat	2790 mg/kg (Rat)
LD50 oral	2790 mg/kg body weight
LD50 dermal rat	5610 mg/kg (Rat)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit)
ATE CA (oral)	2790 mg/kg body weight
ATE CA (Dermal)	5610 mg/kg body weight
<b>HEDIONE (24851-98-7)</b>	
LD50 oral rat	> 5000 mg/kg (Rat, Oral)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit, Dermal)
<b>ORANGE TERPENES (68647-72-3)</b>	
LD50 oral rat	> 2000 mg/kg body weight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Female, Read-across, Oral)
LD50 dermal rabbit	> 5000 mg/kg body weight (Equivalent or similar to OECD 402, Rabbit, Weight of evidence, Dermal)
<b>TRIPLAL, PURE (27939-60-2)</b>	
LD50 oral rat	3600 mg/kg (Rat, Oral)



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<b>TRIPLAL, PURE (27939-60-2)</b>	
LD50 oral	3900 mg/kg body weight
LD50 dermal rabbit	5000 mg/kg (Rabbit, Dermal)
ATE CA (oral)	3600 mg/kg body weight
ATE CA (Dermal)	5000 mg/kg body weight

<b>VERDOX PURE (OTBCHA) (88-41-5)</b>	
LD50 oral	4600 mg/kg body weight
ATE CA (oral)	4600 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

<b>CALONE 1951 (28940-11-6)</b>	
STOT-single exposure	May cause drowsiness or dizziness.

: Not classified

STOT-repeated exposure

Aspiration hazard : Not classified

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.

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

<b>BENZYL BENZOATE (120-51-4)</b>	
LC50 fish 1	2.32 mg/l (EU Method C.1, 96 h, Danio rerio, Semi-static system, Fresh water, Experimental value, GLP)
EC50 Daphnia 1	3.09 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
EC50 72h algae [mg/l] 1	0.475 mg/l (OECD 201: Alga, Growth Inhibition Test, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Growth rate)
BCF fish 1	2.286 (BCFBAF v3.00, Pisces, QSAR)
Log Pow	3.97 (Experimental value, 25 °C)
Log Koc	3.8 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value)

<b>DIHYDROMYRCENOL (18479-58-8)</b>	
Log Pow	3.47 (Estimated value)

<b>GERANYL ACETATE PRIME (105-87-3)</b>	
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)



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<b>GERANYL ACETATE PRIME (105-87-3)</b>	
EC50 Daphnia 1	14.1 mg/l (EU Method C.2, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
EC50 72h algae [mg/l] 1	3.72 mg/l (OECD 201: Alga, Growth Inhibition Test, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, GLP)
BCF other aquatic organisms 1	1500 (Estimated value)
Log Pow	4.04 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method)
Log Koc	3.06 (log Koc, SRC PCKOCWIN v2.0, Calculated value)

<b>LILIAL, PURE (80-54-6)</b>	
LC50 fish 1	2.04 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Flow-through system, Fresh water, Experimental value, GLP)
EC50 Daphnia 1	10.7 mg/l (Other, 48 h, Daphnia magna, Static system, Fresh water, Experimental value)
EC50 72h algae [mg/l] 1	29.155 mg/l (DIN 38412-9, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Growth rate)
Log Pow	4.2 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 24 °C)
Log Koc	3.11 (log Koc, PCKOCWIN v1.66, Calculated value)

<b>LINALOOL 90 (78-70-6)</b>	
LC50 fish 2	27.8 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Salmo gairdneri)
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)
Log Pow	2.84 - 3.145
Threshold limit algae 1	88.3 mg/l (EC50; 96 h)

<b>LINALYL ACETATE SPECIAL (115-95-7)</b>	
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)
EC50 72h algae [mg/l] 1	16 mg/l (OECD 201: Alga, Growth Inhibition Test, Scenedesmus subspicatus)
Log Pow	3.93 (Experimental value)

<b>HEDIONE (24851-98-7)</b>	
Log Pow	3 (Estimated value)

<b>ORANGE TERPENES (68647-72-3)</b>	
LC50 fish 1	720 µg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value, Lethal)
EC50 Daphnia 1	0.36 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
EC50 72h algae [mg/l] 1	150 mg/l (OECD 201: Alga, Growth Inhibition Test, Desmodesmus subspicatus, Static system, Fresh water, Read-across, GLP)
BCF fish 1	864.8 - 1022 (Pisces, QSAR, Fresh weight)
Log Pow	4.38 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 37 °C)

### 12.2. Persistence and degradability

<b>BENZYL BENZOATE (120-51-4)</b>	
Persistence and degradability	Readily biodegradable in water.

<b>DIHYDROMYRCENOL (18479-58-8)</b>	
Persistence and degradability	Biodegradability in water: no data available.

<b>GERANYL ACETATE PRIME (105-87-3)</b>	
Persistence and degradability	Readily biodegradable in water.
ThOD	2.6 g O <sub>2</sub> /g substance

<b>LILIAL, PURE (80-54-6)</b>	
Persistence and degradability	Readily biodegradable in water.

<b>LINALOOL 90 (78-70-6)</b>	
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

<b>LINALYL ACETATE SPECIAL (115-95-7)</b>	
Persistence and degradability	Readily biodegradable in water.

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<b>HEDIONE (24851-98-7)</b>	
Persistence and degradability	Readily biodegradable in water.
<b>ORANGE TERPENES (68647-72-3)</b>	
Persistence and degradability	Readily biodegradable in water.
ThOD	3.29 g O <sub>2</sub> /g substance
<b>TRIPLAL, PURE (27939-60-2)</b>	
Persistence and degradability	Biodegradability in water: no data available.
<b>12.3. Bioaccumulative potential</b>	
<b>BENZYL BENZOATE (120-51-4)</b>	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
BCF fish 1	2.286 (BCFBAF v3.00, Pisces, QSAR)
Log Pow	3.97 (Experimental value, 25 °C)
Log Koc	3.8 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value)
<b>DIHYDROMYRCENOL (18479-58-8)</b>	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
Log Pow	3.47 (Estimated value)
<b>GERANYL ACETATE PRIME (105-87-3)</b>	
Bioaccumulative potential	Potential for bioaccumulation (4 ≥ Log Kow ≤ 5).
BCF other aquatic organisms 1	1500 (Estimated value)
Log Pow	4.04 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method)
Log Koc	3.06 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
<b>LILIAL, PURE (80-54-6)</b>	
Bioaccumulative potential	Potential for bioaccumulation (4 ≥ Log Kow ≤ 5).
Log Pow	4.2 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 24 °C)
Log Koc	3.11 (log Koc, PCKOCWIN v1.66, Calculated value)
<b>LINALOOL 90 (78-70-6)</b>	
Bioaccumulative potential	Bioaccumable.
Log Pow	2.84 - 3.145
<b>LINALYL ACETATE SPECIAL (115-95-7)</b>	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
Log Pow	3.93 (Experimental value)
<b>HEDIONE (24851-98-7)</b>	
Log Pow	3 (Estimated value)
<b>ORANGE TERPENES (68647-72-3)</b>	
Bioaccumulative potential	Potential for bioaccumulation (4 ≥ Log Kow ≤ 5).
BCF fish 1	864.8 - 1022 (Pisces, QSAR, Fresh weight)
Log Pow	4.38 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 37 °C)
<b>TRIPLAL, PURE (27939-60-2)</b>	
Bioaccumulative potential	No bioaccumulation data available.
<b>12.4. Mobility in soil</b>	
<b>BENZYL BENZOATE (120-51-4)</b>	
Surface tension	0.027 N/m (210 °C)
Ecology - soil	Low potential for mobility in soil.
Log Koc	3.8 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value)
Log Pow	3.97 (Experimental value, 25 °C)
<b>DIHYDROMYRCENOL (18479-58-8)</b>	
Ecology - soil	No (test) data on mobility of the substance available.
Log Pow	3.47 (Estimated value)
<b>GERANYL ACETATE PRIME (105-87-3)</b>	
Ecology - soil	Low potential for mobility in soil.
Log Koc	3.06 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Log Pow	4.04 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method)

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<b>LILIAL, PURE (80-54-6)</b>	
Ecology - soil	Low potential for mobility in soil.
Log Koc	3.11 (log Koc, PCKOCWIN v1.66, Calculated value)
Log Pow	4.2 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 24 °C)
<b>LINALOOL 90 (78-70-6)</b>	
Log Pow	2.84 - 3.145
<b>LINALYL ACETATE SPECIAL (115-95-7)</b>	
Ecology - soil	Adsorbs into the soil.
Log Pow	3.93 (Experimental value)
<b>HEDIONE (24851-98-7)</b>	
Log Pow	3 (Estimated value)
<b>ORANGE TERPENES (68647-72-3)</b>	
Ecology - soil	Adsorbs into the soil.
Log Pow	4.38 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 37 °C)

### 12.5. Other adverse effects

Ozone : Not classified

## 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

### 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

Not regulated for transport

### 14.3. Air and sea transport

### IMDG

Not regulated for transport

### IATA

Not regulated for transport

## SECTION 15: Regulatory information

### 15.1. National regulations

<b>AMBROFIX (6790-58-5)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
<b>CALONE 1951 (28940-11-6)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
<b>COUMARIN CRYSTALS (91-64-5)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
<b>CEDROL CRYSTALS (77-53-2)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
<b>TONALID (1506-02-1)</b>	
Listed on the Canadian DSL (Domestic Substances List)	

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<b>MOUSSE DE METRE (4707-47-5)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>ALLYL AMYL GLYCOLATE PURE (67634-00-8)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>DAMASCONE ALPHA (24720-09-0)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>ISO E SUPER (54464-57-2)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>AMBER CORE (139504-68-0)</b>
Listed on the Canadian DSL (Domestic Substances List)
Canada DSL & NDSL Flags   Substance was manufactured or imported during the transitional period (e.g. January 1, 1987 and July 1, 1994)
<b>BACDANOL (28219-61-6)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>BENZYL BENZOATE (120-51-4)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>CITRAL SYNTHETIC (5392-40-5)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>CASHMERAN (33704-61-9)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>CYCLOGALBANIFF (68901-15-5)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>DIHYDROMYRCENOL (18479-58-8)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>ETHYL LINALOOL (10339-55-6)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>FLORALOZONE (67634-14-4)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>GALAXOLIDE PURE (1222-05-5)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>GERANYL ACETATE PRIME (105-87-3)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>ISO BUTYL QUINOLINE (1333-58-0)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>LILIAL, PURE (80-54-6)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>LINALOOL 90 (78-70-6)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>LINALYL ACETATE SPECIAL (115-95-7)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>HEDIONE (24851-98-7)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>NERYL ACETATE PURE (141-12-8)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>ORANGE TERPENES (68647-72-3)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>TRIPLAL, PURE (27939-60-2)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>UNDECAVERTOL (81782-77-6)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>VERDOX PURE (OTBCHA) (88-41-5)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>PATCHOULI INDONESIAN OIL (8014-09-3)</b>
Listed on the Canadian DSL (Domestic Substances List)

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### SAFRALEINE (54440-17-4)

Listed on the Canadian NDSL (Non-Domestic Substances List)

### 15.2. International regulations

#### AMBROFIX (6790-58-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### CALONE 1951 (28940-11-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### COUMARIN CRYSTALS (91-64-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### CEDROL CRYSTALS (77-53-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### TONALID (1506-02-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### MOUSSE DE METRE (4707-47-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### ALLYL AMYL GLYCOLATE PURE (67634-00-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### DAMASCONE ALPHA (24720-09-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### ISO E SUPER (54464-57-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### AMBER CORE (139504-68-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

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

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### BENZYL BENZOATE (120-51-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### CITRAL SYNTHETIC (5392-40-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### CASHMERAN (33704-61-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### CYCLOGALBANIFF (68901-15-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

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

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### ETHYL LINALOOL (10339-55-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### FLORALOZONE (67634-14-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### GALAXOLIDE PURE (1222-05-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

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

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### ISO BUTYL QUINOLINE (1333-58-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### LILIAL, PURE (80-54-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

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

Listed on the United States TSCA (Toxic Substances Control Act) inventory

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

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### HEDIONE (24851-98-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

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

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### **ORANGE TERPENES (68647-72-3)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### **TRIPLAL, PURE (27939-60-2)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### **UNDECAVERTOL (81782-77-6)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### **VERDOX PURE (OTBCHA) (88-41-5)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory

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

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### **SAFRALEINE (54440-17-4)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory

## **SECTION 16: Other information**

SDS Major/Minor : None  
Issue date : 11/20/2018  
Revision date : 05/22/2020  
Supersedes : 07/24/2019

Full text of H-phrases:

H226	Flammable liquid and vapour
H227	Combustible liquid
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H314	Causes severe skin burns and eye damage
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
H330	Fatal if inhaled
H336	May cause drowsiness or dizziness
H361	Suspected of damaging fertility or the unborn child

SDS Canada (GHS)

*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.*