

### SECTION 1: Identification

#### 1.1. Product identifier

Product form : Mixture  
 Product name : OIL, FRANKINCENSE & MYRRH PF\*  
 CAS-No. : N/A  
 Product code : 99121  
 Product group : Trade product

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

No additional information available

#### 1.3. Supplier

Shay and Company  
 10639 SE Fuller Rd  
 Milwaukie, OR 97222  
 5036531155 - orders@shayandcompany.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 sensitization, Category 1 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) :

H317 - May cause an allergic skin reaction  
 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/vapors/spray.  
 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.  
 P308+P313 - IF exposed or concerned: Get medical advice/attention.  
 P321 - Specific treatment (see supplemental first aid instruction on this label).  
 P333+P313 - If skin irritation or rash occurs: 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.

#### 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

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### 3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
MEDIUM CHAIN TRIGLYCERIDES		(CAS-No.) 73398-61-5	≥ 50	Not classified
PATCHOULI OIL		(CAS-No.) 8014-09-3	1 – 5	Asp. Tox. 1, H304
OLIBANUM RESINOID		(CAS-No.) 89957-98-2	1 – 5	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Skin Sens. 1, H317 Repr. 2, H361 Asp. Tox. 1, H304
VANILLIN	2-methoxy-4-formylphenol / 3-methoxy-4-hydroxy benzaldehyde / 4-formyl-2-methoxyphenol / 4-hydroxy meta-anisaldehyde / 4-hydroxy-5-methoxybenzaldehyde / 4-hydroxy-m-anisaldehyde / benzaldehyde, 4-hydroxy-3-methoxy- / FEMA No 3107 / Iioxin / m-anisaldehyde, 4-hydroxy / meta-anisaldehyde, 4-hydroxy / methylprotocatechualdehyde / methylprotocatechuic aldehyde / para-hydroxy-meta-methoxybenzaldehyde / para-vanillin / p-hydroxy-meta-methoxy benzaldehyde / p-hydroxy-m-methoxybenzaldehyde / protocatechualdehyde 3-methyl ether / protocatechualdehyde, methyl- / p-vanillin / vanilla / vanilla aldehyde / vanillaldehyde / vanillic aldehyde / vanillin / zimco	(CAS-No.) 121-33-5	1 – 5	Eye Irrit. 2A, H319
ORANGE OIL		(CAS-No.) 8028-48-6	1 – 5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304
HELIOTROPINE	1,3-benzodioxole-5-carboxaldehyde / 3,4-(methylenedioxy)benzaldehyde / 3,4-benzodioxole-5-carboxaldehyde / 3,4-dihydroxybenzaldehydemethyleneket al / 3,4-dimethylenedioxybenzaldehyde / 3,4-methylene-dihydroxybenzaldehyde / 3,4-methylenedioxybenzaldehyde / 5-formyl-1,3-benzodioxole / benzaldehyde, 3,4-(methylenedioxy)- / dioxymethylene-protocatechuic aldehyde / FEMA No 2911 / heliotropin / heliotropin / piperonal / piperonaldehyde / piperonyl aldehyde / protocatechuic aldehyde methylene ether	(CAS-No.) 120-57-0	1 – 5	Skin Sens. 1B, H317
trans-Anethole	(E)-1-methoxy-4-(1-propenyl)benzene / (E)-4-propenylanisole / (E)-anethole / (E)-para-propenylanisole / (E)-p-propenylanisole / 1-methoxy-4-[1-propenyl]benzene, (E)- / 4-propenylanisole, (E)- / anethol, trans- / ANETHOLE 21/22 DEGREES "D" DSA / anethole, (E)- / anethole, trans- / anisole, para-propenyl-, (E)- / anisole, para-propenyl-, trans- / anisole, p-propenyl-, (E)- / anisole, p-propenyl-, trans- / benzene, 1-methoxy-4-(1-propenyl)-, (E)- / para-propenylanisole, (E)- / para-propenylanisole, trans- / p-propenylanisole, (E)- / p-propenylanisole, trans- / trans-1-methoxy-4-(1-propenyl)benzene / trans-anethole / trans-para-propenylanisole / trans-p-propenylanisole	(CAS-No.) 4180-23-8	1 – 5	Flam. Liq. 4, H227 Acute Tox. 3 (Inhalation:vapor), H331 Skin Sens. 1B, H317

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ISOPROPYL MYRISTATE	1-methylethyltetradecanoate / 1-tridecane carboxylic acid, isopropyl ester / bisomel / crodacol IPM / crodamol IPM / deltyl extra / emcol-IM / emerest 2314 / estergel / IPM / isomyst / isopropyl myristate / isopropyl tetradecanoate / isopropylmyristate D-50 / isopropylmyristate NF / ja-fa IPM / kessco IPM / kessco isopropyl myristate / kesscomir / myristic acid isopropyl ester / plymoutm IPM / promyr / sinnoester MIP / starfol IPM / stepan D-50 / tegester / tetradecanoic acid 1-methylethyl ester / tetradecanoic acid isopropyl ester / tetradecanoic acid, 1-methylethyl ester / tetradecanoic acid, isopropyl / unimate IPM / wickenol 101	(CAS-No.) 110-27-0	1 – 5	Not classified
1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylcyclopenta-γ-2-benzopyran		(CAS-No.) 1222-05-5	1 – 5	Flam. Liq. 4, H227
LABDANUM OIL		(CAS-No.) 8016-26-0	1 – 5	Flam. Liq. 4, H227 Skin Sens. 1, H317
OLIBANUM OIL		(CAS-No.) 8016-36-2	0.1 – 1	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Skin Sens. 1, H317 Repr. 2, H361 Asp. Tox. 1, H304
DIHYDROMYRCENOL	2,6-dimethyloct-7-en-2-ol / 7-octen-2-ol, 2,6-dimethyl- / dihydromyrcenol	(CAS-No.) 18479-58-8	0.1 – 1	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319
LABDANUM OIL		(CAS-No.) 8016-26-0	0.1 – 1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304
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	0.1 – 1	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2B, H320 Skin Sens. 1B, H317
CEDARWOOD OIL		(CAS-No.) 8000-27-9	0.1 – 1	Asp. Tox. 1, H304
GERANIOL	(E)-3,7-dimethyl-2,6-octadien-1-ol / (E)-geraniol / (E)-nerol / 2,6-dimethyl-2,6-octadien-8-ol / 2,6-dimethyl-trans-2,6-octadien-8-ol / 2,6-octadien-1-ol, 3,7-dimethyl-, (E)- / 2,6-octadien-1-ol, 3,7-dimethyl-, trans- / 2-trans-3,7-dimethyl-2,6-octadien-1-ol / 3,7-dimethyl-2,6-octadien-1-ol, (E)- / 3,7-dimethyl-2,6-octadien-1-ol, trans- / 3,7-dimethyl-trans-2,6-octadien-1-ol / beta-geraniol / geraniol alcohol / geraniol extra / geranyl alcohol / guaniol / lemonol / 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 / trans-2,6-octadien-1-ol, 3,7-dimethyl- / trans-3,7-dimethyl-2,6-octadien-1-ol / trans-geraniol	(CAS-No.) 106-24-1	0.1 – 1	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317
GERANIUM OIL		(CAS-No.) 8000-46-2	0.1 – 1	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1B, H317
MYRRH OIL		(CAS-No.) 8016-37-3	0.1 – 1	Acute Tox. 4 (Oral), H302

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Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
ALPHA PINENE		(CAS-No.) 7785-26-4	0.1 – 1	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304
2-Methoxy-4-propylphenol		(CAS-No.) 2785-87-7	0.1 – 1	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1B, H317 STOT SE 3, H335
PERU BALSAM OIL		(CAS-No.) 8007-00-9	0.1 – 1	Eye Dam. 1, H318 Skin Sens. 1, H317 STOT RE 2, H373
LIMONENE		(CAS-No.) 138-86-3	< 0.1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304
BETA PINENE		(CAS-No.) 127-91-3	< 0.1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304

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 eyes with water as a precaution.
- 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 : May cause an allergic skin reaction.

#### 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

No additional information available

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

- Hazardous decomposition products in case of fire : Toxic fumes may be released.

#### 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/vapors/spray.

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

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 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:

Wear respiratory protection.

#### 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 : Mixture contains one or more component(s) which have the following colour(s):  
White to light yellow On exposure to light: discolours Colourless to light yellow Colourless  
Colourless to white On exposure to light: turns yellow On exposure to air: turns 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:  
Pleasant odour Characteristic odour Sweet odour Lemon odour Floral odour Strong odour  
Odourless Fruity 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 : 100 °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 : 0.956 (0.946 – 0.966)

Solubility : Insoluble.

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Partition coefficient n-octanol/water (Log Pow) : No data available

Explosion limits : No data available

### 9.2. Other information

Refractive index : 1.462 (1.452 – 1.472)

## SECTION 10: Stability and 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).

Incompatible materials : No additional information available

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Hardening time: : No additional information available

## 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

<b>VANILLIN (121-33-5)</b>	
LD50 oral rat	3300 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 oral	3500 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, 14 day(s))
ATE CA (oral)	3300 mg/kg body weight
<b>trans-Anethole (4180-23-8)</b>	
LD50 oral rat	1420 – 3000 mg/kg body weight (Rat, Male / female, Experimental value, Oral)
LD50 oral	3000 mg/kg body weight
LD50 dermal rabbit	> 4900 mg/kg body weight (Equivalent or similar to EU Method B.3, 24 h, Rabbit, Male / female, Experimental value, Dermal, 14 day(s))
LC50 Inhalation - Rat	≥ 5.1 mg/l (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (aerosol))
ATE CA (oral)	1420 mg/kg body weight
ATE CA (vapors)	3 mg/l/4h
<b>PERU BALSAM OIL (8007-00-9)</b>	
LD50 oral	2880 mg/kg body weight
ATE CA (oral)	2880 mg/kg body weight
<b>2-Methoxy-4-propylphenol (2785-87-7)</b>	
LD50 oral	2600 mg/kg body weight
ATE CA (oral)	2600 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>GERANIOL (106-24-1)</b>	
LD50 oral rat	3600 mg/kg body weight (Rat; Experimental value)
LD50 oral	3600 mg/kg body weight
LD50 dermal rabbit	> 5000 mg/kg body weight (Rabbit; Experimental value)
ATE CA (oral)	3600 mg/kg body weight
<b>GERANIUM OIL (8000-46-2)</b>	
LD50 oral	4584 mg/kg body weight
LD50 dermal	2500 mg/kg body weight
ATE CA (oral)	4584 mg/kg body weight
ATE CA (Dermal)	2500 mg/kg body weight

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<b>LINALYL ACETATE (115-95-7)</b>	
LD50 oral rat	> 9000 mg/kg body weight (BASF test, Rat, Male / female, Experimental value, Oral, 7 day(s))
LD50 dermal rabbit	> 5000 mg/kg body weight (Rabbit, Experimental value, Dermal, 14 day(s))
<b>OLIBANUM RESINOID (89957-98-2)</b>	
LD50 oral	1823 mg/kg body weight
ATE CA (oral)	1823 mg/kg body weight
<b>MYRRH OIL (8016-37-3)</b>	
LD50 oral	1650 mg/kg body weight
ATE CA (oral)	1650 mg/kg body weight
<b>ORANGE OIL (8028-48-6)</b>	
LD50 oral rat	> 5000 mg/kg body weight (Rat; Equivalent or similar to OECD 401; Experimental value)
LD50 dermal rabbit	> 5000 mg/kg body weight (Rabbit; Experimental value; Equivalent or similar to OECD 402)
<b>OLIBANUM OIL (8016-36-2)</b>	
LD50 oral	1823 mg/kg body weight
ATE CA (oral)	1823 mg/kg body weight
<b>ALPHA PINENE (7785-26-4)</b>	
LD50 oral	500 mg/kg body weight
ATE CA (oral)	500 mg/kg body weight
<b>HELIOTROPINE (120-57-0)</b>	
LD50 oral	2700 mg/kg body weight
ATE CA (oral)	2700 mg/kg body weight

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
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>2-Methoxy-4-propylphenol (2785-87-7)</b>	
STOT-single exposure	May cause respiratory irritation.

: Not classified

STOT-repeated exposure

<b>PERU BALSAM OIL (8007-00-9)</b>	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified

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

## 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>VANILLIN (121-33-5)</b>	
LC50 fish 1	57 mg/l (Equivalent or similar to OECD 203, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value)

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<b>VANILLIN (121-33-5)</b>	
EC50 Daphnia 1	36.79 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
ErC50 (algae)	120 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)
Partition coefficient n-octanol/water (Log Pow)	1.17 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C)
Partition coefficient n-octanol/water (Log Koc)	3.438 (log Koc, Experimental value)

<b>trans-Anethole (4180-23-8)</b>	
LC50 fish 1	7 mg/l (EU Method C.1, 96 h, Danio rerio, Semi-static system, Fresh water, Experimental value, GLP)
EC50 Daphnia 1	4.25 mg/l (ASTM E729-88, 48 h, Daphnia magna, Flow-through system, Experimental value)
BCF fish 1	79.92 l/kg (Pisces, QSAR, Fresh weight)
Partition coefficient n-octanol/water (Log Pow)	3.388 (QSAR, KOWWIN, 25 °C)
Partition coefficient n-octanol/water (Log Koc)	2.717 – 2.856 (log Koc, SRC PCKOCWIN v2.0, Calculated value)

<b>DIHYDROMYRCENOL (18479-58-8)</b>	
Partition coefficient n-octanol/water (Log Pow)	3.47 (Estimated value)

<b>ISOPROPYL MYRISTATE (110-27-0)</b>	
Partition coefficient n-octanol/water (Log Pow)	7.17 (Estimated value)

<b>GERANIOL (106-24-1)</b>	
LC50 fish 1	> 9.8 mg/l (LC50; 96 h)

<b>LINALYL ACETATE (115-95-7)</b>	
LC50 fish 1	11 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Cyprinus carpio, Flow-through system, Fresh water, Experimental value, GLP)
EC50 Daphnia 1	59 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)
ErC50 (algae)	156.7 mg/l (DIN 38412-9, 96 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Nominal concentration)
BCF fish 1	173.9 l/kg (BCFBAF v3.00, Calculated value, Fresh weight)
Partition coefficient n-octanol/water (Log Pow)	3.9 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C)
Partition coefficient n-octanol/water (Log Koc)	2.71 (log Koc, PCKOCWIN v1.66, Calculated value)

<b>ORANGE OIL (8028-48-6)</b>	
LC50 fish 1	702 µg/l (LC50; Equivalent or similar to OECD 203; 96 h; Pimephales promelas; Flow-through system; Fresh water; Read-across)
EC50 Daphnia 1	0.67 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)
BCF other aquatic organisms 1	32 – 395 (BCF; BCFWIN)
Partition coefficient n-octanol/water (Log Pow)	2.78 – 4.88 (QSAR; KOWWIN)

<b>HELIOTROPINE (120-57-0)</b>	
Partition coefficient n-octanol/water (Log Pow)	1.05

## 12.2. Persistence and degradability

<b>VANILLIN (121-33-5)</b>	
Persistence and degradability	Readily biodegradable in water.

<b>trans-Anethole (4180-23-8)</b>	
Persistence and degradability	Readily biodegradable in water.

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

<b>ISOPROPYL MYRISTATE (110-27-0)</b>	
Persistence and degradability	Readily biodegradable in water.
Chemical oxygen demand (COD)	2.74 g O <sub>2</sub> /g substance
ThOD	2.9 g O <sub>2</sub> /g substance

<b>GERANIOL (106-24-1)</b>	
Persistence and degradability	Readily biodegradable in water.
ThOD	2.9 g O <sub>2</sub> /g substance

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



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<b>HELIOTROPINE (120-57-0)</b>	
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.
ThOD	1.71 g O <sub>2</sub> /g substance

### 12.3. Bioaccumulative potential

<b>VANILLIN (121-33-5)</b>	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
Partition coefficient n-octanol/water (Log Pow)	1.17 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C)
Partition coefficient n-octanol/water (Log Koc)	3.438 (log Koc, Experimental value)

<b>trans-Anethole (4180-23-8)</b>	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
BCF fish 1	79.92 l/kg (Pisces, QSAR, Fresh weight)
Partition coefficient n-octanol/water (Log Pow)	3.388 (QSAR, KOWWIN, 25 °C)
Partition coefficient n-octanol/water (Log Koc)	2.717 – 2.856 (log Koc, SRC PCKOCWIN v2.0, Calculated value)

<b>DIHYDROMYRCENOL (18479-58-8)</b>	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
Partition coefficient n-octanol/water (Log Pow)	3.47 (Estimated value)

<b>ISOPROPYL MYRISTATE (110-27-0)</b>	
Partition coefficient n-octanol/water (Log Pow)	7.17 (Estimated value)

<b>GERANIOL (106-24-1)</b>	
Bioaccumulative potential	No bioaccumulation data available.

<b>LINALYL ACETATE (115-95-7)</b>	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
BCF fish 1	173.9 l/kg (BCFBAF v3.00, Calculated value, Fresh weight)
Partition coefficient n-octanol/water (Log Pow)	3.9 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C)
Partition coefficient n-octanol/water (Log Koc)	2.71 (log Koc, PCKOCWIN v1.66, Calculated value)

<b>ORANGE OIL (8028-48-6)</b>	
BCF other aquatic organisms 1	32 – 395 (BCF; BCFWIN)
Partition coefficient n-octanol/water (Log Pow)	2.78 – 4.88 (QSAR; KOWWIN)

<b>HELIOTROPINE (120-57-0)</b>	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
Partition coefficient n-octanol/water (Log Pow)	1.05

### 12.4. Mobility in soil

<b>VANILLIN (121-33-5)</b>	
Ecology - soil	Low potential for mobility in soil.
Partition coefficient n-octanol/water (Log Koc)	3.438 (log Koc, Experimental value)
Partition coefficient n-octanol/water (Log Pow)	1.17 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C)

<b>trans-Anethole (4180-23-8)</b>	
Surface tension	35 mN/m (25 °C)
Ecology - soil	Low potential for adsorption in soil.
Partition coefficient n-octanol/water (Log Koc)	2.717 – 2.856 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Partition coefficient n-octanol/water (Log Pow)	3.388 (QSAR, KOWWIN, 25 °C)

<b>DIHYDROMYRCENOL (18479-58-8)</b>	
Ecology - soil	No (test) data on mobility of the substance available.
Partition coefficient n-octanol/water (Log Pow)	3.47 (Estimated value)

<b>ISOPROPYL MYRISTATE (110-27-0)</b>	
Partition coefficient n-octanol/water (Log Pow)	7.17 (Estimated value)

<b>LINALYL ACETATE (115-95-7)</b>	
Ecology - soil	Low potential for adsorption in soil.
Partition coefficient n-octanol/water (Log Koc)	2.71 (log Koc, PCKOCWIN v1.66, Calculated value)
Partition coefficient n-octanol/water (Log Pow)	3.9 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C)

<b>ORANGE OIL (8028-48-6)</b>	
Partition coefficient n-octanol/water (Log Pow)	2.78 – 4.88 (QSAR; KOWWIN)

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### HELIOTROPINE (120-57-0)

Partition coefficient n-octanol/water (Log Pow) 1.05

#### 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

#### VANILLIN (121-33-5)

Listed on the Canadian DSL (Domestic Substances List)

#### trans-Anethole (4180-23-8)

Listed on the Canadian DSL (Domestic Substances List)

#### PERU BALSAM OIL (8007-00-9)

Listed on the Canadian DSL (Domestic Substances List)

#### MEDIUM CHAIN TRIGLYCERIDES (73398-61-5)

Listed on the Canadian DSL (Domestic Substances List)

#### 2-Methoxy-4-propylphenol (2785-87-7)

Listed on the Canadian DSL (Domestic Substances List)

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

Listed on the Canadian DSL (Domestic Substances List)

#### ISOPROPYL MYRISTATE (110-27-0)

Listed on the Canadian DSL (Domestic Substances List)

#### 1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylcyclopenta-γ-2-benzopyran (1222-05-5)

Listed on the Canadian DSL (Domestic Substances List)

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

Listed on the Canadian DSL (Domestic Substances List)

#### GERANIUM OIL (8000-46-2)

Listed on the Canadian DSL (Domestic Substances List)

#### LABDANUM OIL (8016-26-0)

Listed on the Canadian DSL (Domestic Substances List)

#### LABDANUM OIL (8016-26-0)

Listed on the Canadian DSL (Domestic Substances List)

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<b>LINALYL ACETATE (115-95-7)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>OLIBANUM RESINOID (89957-98-2)</b>
Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)
<b>CEDARWOOD OIL (8000-27-9)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>MYRRH OIL (8016-37-3)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>ORANGE OIL (8028-48-6)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>PATCHOULI OIL (8014-09-3)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>OLIBANUM OIL (8016-36-2)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>BETA PINENE (127-91-3)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>ALPHA PINENE (7785-26-4)</b>
Listed on the Canadian NDSL (Non-Domestic Substances List)
<b>LIMONENE (138-86-3)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>HELIOTROPINE (120-57-0)</b>
Listed on the Canadian DSL (Domestic Substances List)

### 15.2. International regulations

<b>VANILLIN (121-33-5)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory
<b>trans-Anethole (4180-23-8)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory
<b>PERU BALSAM OIL (8007-00-9)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory
<b>MEDIUM CHAIN TRIGLYCERIDES (73398-61-5)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory
<b>2-Methoxy-4-propylphenol (2785-87-7)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory
<b>DIHYDROMYRCENOL (18479-58-8)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory
<b>ISOPROPYL MYRISTATE (110-27-0)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory
<b>1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylcyclopenta-γ-2-benzopyran (1222-05-5)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory
<b>GERANIOL (106-24-1)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory
<b>GERANIUM OIL (8000-46-2)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory
<b>LABDANUM OIL (8016-26-0)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory
<b>LABDANUM OIL (8016-26-0)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory
<b>LINALYL ACETATE (115-95-7)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory
<b>OLIBANUM RESINOID (89957-98-2)</b>
Not listed on the United States TSCA (Toxic Substances Control Act) inventory
<b>CEDARWOOD OIL (8000-27-9)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory

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<b>MYRRH OIL (8016-37-3)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory
<b>ORANGE OIL (8028-48-6)</b>
Not listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
<b>PATCHOULI OIL (8014-09-3)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory
<b>OLIBANUM OIL (8016-36-2)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory
<b>BETA PINENE (127-91-3)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory
<b>ALPHA PINENE (7785-26-4)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory
<b>LIMONENE (138-86-3)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory
<b>HELIOTROPINE (120-57-0)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory

### SECTION 16: Other information

SDS Major/Minor : None  
Issue date : 08/19/2021

Full text of H-phrases:

H226	Flammable liquid and vapor
H227	Combustible liquid
H302	Harmful if swallowed
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
H331	Toxic if inhaled
H335	May cause respiratory irritation
H361	Suspected of damaging fertility or the unborn child
H373	May cause damage to organs through prolonged or repeated exposure

*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.*