



# OIL, GREEN TEA\*

## Safety Data Sheet

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

Issue date: 11/20/2018

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Supersedes: 11/20/2018

Version: 1.1

### SECTION 1: Identification

#### 1.1. Product identifier

Product form : Mixture  
Product name : OIL, GREEN TEA\*  
CAS-No. : N/A  
Product code : 90-2245-03  
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)

Flammable liquids Category 4	H227 Combustible liquid
Acute toxicity (inhalation:vapour) Category 4	H332 Harmful if inhaled
Skin corrosion/irritation Category 2	H315 Causes skin irritation
Serious eye damage/eye irritation Category 2A	H319 Causes serious eye irritation
Skin sensitization, Category 1	H317 May cause an allergic skin reaction
Carcinogenicity Category 2	H351 Suspected of causing cancer

Full text of H statements : see section 16

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

##### GHS CA labeling

Hazard pictograms (GHS CA) :



Signal word (GHS CA) : Warning

Hazard statements (GHS CA) : H227 - Combustible liquid  
H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H319 - Causes serious eye irritation  
H332 - Harmful if inhaled  
H351 - Suspected of causing cancer

Precautionary statements (GHS CA) : P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 - Wash hands, forearms and face thoroughly after handling.  
P271 - Use only outdoors or in a well-ventilated area.  
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.  
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
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.  
P312 - Call a POISON CENTER or doctor if you feel unwell.  
P321 - Specific treatment (see supplemental first aid instruction on this label).  
P332+P313 - If skin irritation occurs: Get medical advice/attention.

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P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.  
P337+P313 - If eye irritation persists: Get medical advice/attention.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
P370+P378 - In case of fire: Use media other than water to extinguish.  
P403 - Store in a well-ventilated place.  
P405 - Store locked up.  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### 2.3. Other hazards

No additional information available

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

No data available

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
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	25 - 50	Not classified
DIPROPYLENE GLYCOL	diisopropylene glycol / DPG / oxidipropanol / oxybispropanol / oxydipropanol / propanol, oxybis-	(CAS-No.) 25265-71-8	10 - 25	Not classified
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 / bergamol / 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	10 - 25	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2B, H320 Skin Sens. 1B, H317
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-cimemenol / 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	5 - 10	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1B, H317
LEMON OIL		(CAS-No.) 8008-56-8	5 - 10	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304
LEMON OIL TERPENES		(CAS-No.) 68917-33-9	1 - 5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304
CITRONELLOL	(+/-)-3,7-dimethyl-6-octen-1-ol / (+/-)-3,7-dimethyloct-6-en-1-ol / (+/-)-citronellol / 2,3-dihydrogeraniol / 2,6-dimethyl-2-octen-8-ol / 3,7-dimethyl-6-octen-1-ol / 3,7-dimethyl-octen-6-ol-1 / 6-octen-1-ol, 3,7-dimethyl- / 6-octen-1-ol, 3,7-dimethyl-, (+/-)- / beta-citronellol / cephalol / citronellol / citronellol 950 / citronellol, dl- / dihydrogeraniol / dl-citronellol / FEMA No 2309 / FEMA No 2980 / rhodinol / rodinol	(CAS-No.) 106-22-9	1 - 5	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1B, H317

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Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
DIETHYL PHTHALATE	1,2-benzene dicarboxylic acid diethyl ester / 1,2-benzenedicarboxylic acid, diethyl ester / ANOZOL / BISOFLEX DEP / DEP(=diethyl phthalate) / diethyl 1,2-benzenedicarboxylate / diethyl phthalate / diethyl-o-phthalate / diethyl-ortho-phthalate / di-n-ethyl phthalate / di-normal-ethyl phthalate / DPX-F5384 / ESTOL 1550 / ethyl phthalate / KODAFLEX DEP / NEANTINE / o-benzenedicarboxylic acid diethyl ester / o-phthalic acid diethyl ester / ortho-benzenedicarboxylic acid diethyl ester / ortho-phthalic acid diethyl ester / PALATINOL A / PALATINOL A (R) / phthalic acid diethyl ester / phthalic acid ethyl ester / PHTHALOL / PLACIDOL E / SOLVANOL	(CAS-No.) 84-66-2	1 - 5	Acute Tox. 3 (Inhalation:vapour), H331
HYDROXYCITRONELLAL	1-octanal, 3,7-dimethyl-7-hydroxy- / 3,7-dimethyl-7-hydroxyoctanal / 7-hydroxy-3,7-dimethyl octanal / 7-hydroxy-3,7-dimethyloctan-1-al / citronellal hydrate / citronellal, hydroxy- / cyclialia / cyclosia / FEMA No 2583 / fixol / hydroxycitronellal / lilyl aldehyde / muguet synthetic / muguetine principle / octanal, 7-hydroxy-3,7-dimethyl- / phixia	(CAS-No.) 107-75-5	1 - 5	Eye Irrit. 2A, H319 Skin Sens. 1B, H317
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone		(CAS-No.) 54464-57-2	1 - 5	Skin Irrit. 2, H315 Skin Sens. 1B, H317
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
2-Methyl-3-(p-isopropylphenyl)propionaldehyde	2-methyl-3-(4-isopropylphenyl)propanal / 2-methyl-3-(para-isopropylphenyl)propionaldehyde / 2-methyl-3-(p-isopropylphenyl)propionaldehyde / 3-para-cumenyl-2-methylpropionaldehyde / 3-p-cumenyl-2-methylpropionaldehyde / aldehyde B / alpha-methyl-4-(1-methylethyl)benzenepropanal / alpha-methyl-4-isopropylbenzenepropanal / alpha-methyl-p-isopropylhydrocinnamaldehyde / benzenepropanal, alpha-methyl-4-(1-methylethyl)- / cyclamal / cyclamen aldehyde / FEMA No 2743 / hydrocinnamaldehyde, para-isopropyl-alpha-methyl- / hydrocinnamaldehyde, p-isopropyl-alpha-methyl- / methyl para-isopropyl phenyl propyl aldehyde / para-isopropyl-alpha-methylhydrocinnamaldehyde / para-isopropyl-alpha-methylhydrocinnamic aldehyde / para-isopropyl-alpha-methylphenylpropyl aldehyde / p-isopropyl-alpha-methylhydrocinnamaldehyde / p-isopropyl-alpha-methylhydrocinnamic aldehyde / p-isopropyl-alpha-methylphenylpropyl aldehyde	(CAS-No.) 103-95-7	1 - 5	Skin Irrit. 2, H315 Skin Sens. 1B, H317
STYRALLYL ACETATE		(CAS-No.) 93-92-5	1 - 5	Not classified

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ETHYL ACETOACETATE	1-ethoxybutane-1,3-dione / 3-oxo butanoic acid ethyl ester / acetoacetic acid ethyl ester / acetoacetic ester / acetocetan ethylnaty / acetylacetate, active / active acetyl acetate / butanoic acid, 3-oxo-, ethyl ester / diacetic ester / diacetic ether / EAA (=ethyl acetoacetate) / ethyl 3-oxobutyrate / ethyl acetoacetate / ethyl acetonecarboxylate / ethyl acetylacetate / ethyl acetylacetonate / ethyl ester acetoacetic acid / ethyl-3-oxobutanoate / ethyl-beta-ketobutyrate	(CAS-No.) 141-97-9	1 - 5	Flam. Liq. 4, H227
BETA IONONE	3-buten-2-one, 4-(2,6,6-trimethyl-1-cyclohexen-1-yl)- / 4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-3-buten-2-one / 4-(2,6,6-trimethyl-1-cyclohexenyl)-3-buten-2-one / 4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one / beta-cyclocitrylideneacetone / beta-ionone, synthetic / beta-irisone / FEMA No 2595 / ionone beta / irisone beta	(CAS-No.) 14901-07-6	1 - 5	Not classified
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, 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	0.1 - 1	Flam. Liq. 4, H227 Skin Sens. 1B, H317
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
ESTRAGOLE	4-allyl-1-methoxybenzene / 4-allylanisole / benzene, 1-methoxy-4-(2-propenyl)- / chavicol methyl ether / esdragol / esdragon / estragol / estragole / isoanethole / methyl chavicol / methylchavicol / para-allylanisole / para-allylmethoxybenzene / para-methoxyallylbenzene / tarragon	(CAS-No.) 140-67-0	0.1 - 1	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Skin Sens. 1B, H317 Muta. 2, H341 Carc. 2, H351
PETITGRAIN OIL		(CAS-No.) 8014-17-3	0.1 - 1	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304
TERPINYL ACETATE	(+/-)-2-(4-methyl-3-cyclohexenyl)isopropyl acetate / (+/-)-alpha-terpinyl acetate / 3-cyclohexene-1-methanol, alpha,alpha,4-trimethyl-, acetate / alpha-terpineol, acetate / alpha-terpinyl, acetate / para-menth-1-en-8-ol, acetate / p-menth-1-en-8-ol, acetate / p-menth-1-en-8-yl acetate	(CAS-No.) 80-26-2	0.1 - 1	Not classified

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BETA PINENE	2(10)-pinene / 6,6-dimethyl-2-methylenebicyclo(3.1.1)heptane / beta-pinene / beta-pinene(FCC) / bicyclo[3.1.1]heptane, 6,6-dimethyl-2-methylene- / FEMA No 2903 / nopinen / nopinene / PC 600 / pin-2(10)-ene / pseudopinene / pseudopinene / pseudopinene / pseudopinene / pseudopinene / terebenthene(=beta-pinene)	(CAS-No.) 127-91-3	0.25 - 0.375	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304
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-octadien-1-yl 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
ORANGE OIL		(CAS-No.) 8028-48-6	0.1 - 1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304
MENTHOL		(CAS-No.) 2216-51-5	0.1 - 1	Skin Irrit. 2, H315 Eye Irrit. 2A, H319
CITRONELLOL	(+/-)-3,7-dimethyl-6-octen-1-ol / (+/-)-3,7-dimethyloct-6-en-1-ol / (+/-)-citronellol / 2,3-dihydrogeraniol / 2,6-dimethyl-2-octen-8-ol / 3,7-dimethyl-6-octen-1-ol / 3,7-dimethyl-octen-6-ol-1 / 6-octen-1-ol, 3,7-dimethyl- / 6-octen-1-ol, 3,7-dimethyl-, (+/-)- / beta-citronellol / cephol / citronellol / citronellol 950 / citronellol, dl- / dihydrogeraniol / dl-citronellol / FEMA No 2309 / FEMA No 2980 / rhodinol / rodinol	(CAS-No.) 106-22-9	< 0.1	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1B, H317
2,4-Dimethyl-3-cyclohexen-1-carboxaldehyde		(CAS-No.) 68039-49-6	0.025 - 0.0625	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Skin Sens. 1B, H317
2,2,5-Trimethyl-5-pentylcyclopentanone		(CAS-No.) 65443-14-3	0.025 - 0.0625	Flam. Liq. 4, H227
CITRAL		(CAS-No.) 5392-40-5	< 0.1	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1B, H317
Dimethylcyclohex-3-ene-1-carbaldehyde (isomer mixture)		(CAS-No.) 68737-61-1	< 0.1	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Skin Sens. 1B, H317

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ALPHA PINENE	2,6,6-trimethylbicyclo-(3,1,1)-2-heptene / 2,6,6-trimethylbicyclo(3.1.1)-2-hept-2-ene / 2,6,6-trimethylbicyclo(3.1.1)-2-heptene / 2,6,6-trimethylbicyclo(3.1.1)hept-2-ene / 2,6,6-trimethylbicyclo(3.1.1)-2-heptene / 2-pinene / acintene A / alpha-pinene (FCC) / australene / bicyclo(3.1.1)hept-2-ene, 2,6,6-trimethyl- / FEMA No 2902 / pin-2(3)-ene / pinen alpha / pinene (=alpha-pinene) / pinene, pract. (=alpha-pinene)	(CAS-No.) 80-56-8	0.0125 - 0.025	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304
1-(5,5-Dimethyl-1-cyclohexen-1-yl)pent-4-en-1-one		(CAS-No.) 56973-85-4	0.0025 - 0.0125	Skin Sens. 1B, H317
Tetrahydro-4-methyl-2-(2-methylpropen-1-yl)pyran	2H-pyran, tetrahydro-4-methyl-2-(2-methyl-1-propenyl)- / 2H-pyran, tetrahydro-4-methyl-2-(2-methylpropenyl)- / pyran, 2-(2-methyl-1-propenyl)-4-methyltetrahydro- / pyran, tetrahydro-2-(2-methyl-1-propenyl)-4-methyl- / pyran, tetrahydro-4-methyl-2-(2-methylpropenyl)- / rosenoxide / rosoxide / tetrahydro-2-(2-methyl-1-propenyl)-4-methylpyran / tetrahydro-4-methyl-2-(2-methylpropen-1-yl)pyran	(CAS-No.) 16409-43-1	0.0025 - 0.0125	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Repr. 2, H361
LAURYL ALCOHOL		(CAS-No.) 112-53-8	< 0.1	Eye Irrit. 2A, H319
GERANIOL		(CAS-No.) 106-24-1	< 0.1	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317
LIMONENE		(CAS-No.) 138-86-3	< 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. Call a poison center/doctor/physician if you feel unwell.
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. 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

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.
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#### 5.2. Unsuitable extinguishing media

No additional information available

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

Fire hazard	: Combustible liquid.
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#### 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.
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### 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 : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

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

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### BETA PINENE (127-91-3)

##### USA - ACGIH - Occupational Exposure Limits

ACGIH TWA (ppm)	20 ppm
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##### ALPHA PINENE (80-56-8)

##### USA - ACGIH - Occupational Exposure Limits

ACGIH TWA (ppm)	20 ppm
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##### CITRAL (5392-40-5)

##### USA - ACGIH - Occupational Exposure Limits

Local name	Citral
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ACGIH TWA (ppm)	5 ppm
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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)
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##### DIETHYL PHTHALATE (84-66-2)

##### USA - ACGIH - Occupational Exposure Limits

Local name	Diethyl phthalate
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ACGIH TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
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Remark (ACGIH)	URT irr
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##### CITRAL (5392-40-5)

##### USA - ACGIH - Occupational Exposure Limits

Local name	Citral
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ACGIH TWA (ppm)	5 ppm
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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)
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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:

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):  
Colourless Colourless to light yellow Colourless or 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:  
Pine odour Floral odour Characteristic odour Almost odourless Alcohol odour Ester smell Mild odour Aromatic odour Sweet odour Lemon odour Fruity odour Strong 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 : 72 °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 : 0.95 (0.940 - 0.960)  
Solubility : Insoluble.  
Log Pow : No data available  
Explosion limits : No data available

### 9.2. Other information

Refractive index : 1.461 (1.451 - 1.471)

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

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



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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Harmful if inhaled.

ATE CA (vapours)	11.18 mg/l/4h
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#### **PINENE BETA (127-91-3)**

LD50 oral rat	4700 mg/kg (Rat, Oral)
ATE CA (oral)	4700 mg/kg body weight

#### **CITRONELLOL, NATURAL (106-22-9)**

LD50 oral rat	3450 mg/kg (Rat, Inconclusive, insufficient data, Oral)
LD50 oral	3450 mg/kg body weight
LD50 dermal rabbit	2650 mg/kg (Rabbit, Inconclusive, insufficient data, Dermal)
LD50 dermal	2650 mg/kg body weight
ATE CA (oral)	3450 mg/kg body weight
ATE CA (Dermal)	2650 mg/kg body weight

#### **CYCLAL C (68039-49-6)**

LD50 oral	3900 mg/kg body weight
ATE CA (oral)	3900 mg/kg body weight

#### **PINENE ALPHA (80-56-8)**

LD50 oral rat	3700 mg/kg (Rat, Male, Weight of evidence, Oral)
LD50 oral	500 mg/kg body weight
LD50 dermal rabbit	> 5000 mg/kg (24 h, Rabbit, Weight of evidence, Dermal)
ATE CA (oral)	500 mg/kg body weight

#### **Tetrahydro-4-methyl-2-(2-methylpropen-1-yl)pyran (16409-43-1)**

LD50 oral rat	4300 mg/kg (Rat, Oral)
LD50 oral	4300 mg/kg body weight
ATE CA (oral)	4300 mg/kg body weight

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

LD50 dermal	2250 mg/kg body weight
ATE CA (Dermal)	2250 mg/kg body weight

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

LD50 oral rat	3450 mg/kg (Rat, Inconclusive, insufficient data, Oral)
LD50 oral	3450 mg/kg body weight
LD50 dermal rabbit	2650 mg/kg (Rabbit, Inconclusive, insufficient data, Dermal)
LD50 dermal	2650 mg/kg body weight
ATE CA (oral)	3450 mg/kg body weight
ATE CA (Dermal)	2650 mg/kg body weight

#### **CYCLAMENALDEHYDE (103-95-7)**

LD50 oral rat	3810 mg/kg (Rat, Oral)
LD50 oral	3810 mg/kg body weight
LD50 dermal rat	> 5000 mg/kg (Rat, Dermal)
ATE CA (oral)	3810 mg/kg body weight

#### **DIPROPYLENE GLYCOL (DPG) (25265-71-8)**

LD50 oral rat	> 5000 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male/female, Experimental value, Oral)
LD50 dermal rabbit	> 5010 mg/kg body weight (Equivalent or similar to OECD 402, Rabbit, Male/female, Experimental value, Dermal)
LC50 inhalation rat (mg/l)	2.34 mg/l (Equivalent or similar to OECD 403, Rat, Male/female, Experimental value, Inhalation)
ATE CA (vapours)	2.34 mg/l/4h
ATE CA (dust,mist)	2.34 mg/l/4h

#### **ETHYL ACETOACETATE (141-97-9)**

LD50 oral rat	10800 - 12300 mg/kg (Equivalent or similar to OECD 401, Rat, Male/female, Experimental value, Oral)
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<b>ETHYL ACETOACETATE (141-97-9)</b>	
LD50 dermal rat	> 2000 mg/kg (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male/female, Experimental value, Skin, 14 day(s))
ATE CA (oral)	10800 mg/kg body weight
<b>DIETHYL PHTHALATE (DEP) (84-66-2)</b>	
LD50 oral rat	8600 mg/kg (Rat, Oral)
LD50 dermal rabbit	> 7940 mg/kg (Rabbit, Dermal)
LC50 inhalation rat (mg/l)	> 5 mg/l (4 h, Rat, Inhalation)
ATE CA (oral)	8600 mg/kg body weight
ATE CA (vapours)	3 mg/l/4h
<b>HYDROXY CITRONELLAL PURE (107-75-5)</b>	
LD50 oral rat	> 5000 mg/kg (Rat)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit)
<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>METHYL CHAVICOL (ESTRAGOLE) (140-67-0)</b>	
LD50 oral rat	1820 mg/kg (Rat, Oral)
LD50 oral	1230 mg/kg body weight
ATE CA (oral)	1230 mg/kg body weight
<b>MENTHOL CRYSTALS, USP (2216-51-5)</b>	
LD50 oral	2600 mg/kg body weight
ATE CA (oral)	2600 mg/kg body weight
<b>ANETHOLE NATURAL (4180-23-8)</b>	
LD50 oral rat	2090 mg/kg (Rat, Oral)
LD50 oral	3000 mg/kg body weight
LD50 dermal rabbit	> 5000 mg/kg (Rabbit, Dermal)
ATE CA (oral)	2090 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>TERPINYL ACETATE (80-26-2)</b>	
LD50 oral rat	5075 mg/kg (Rat, Oral)
ATE CA (oral)	5075 mg/kg body weight
<b>ORANGE SWEET 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>PETITGRAIN TERPENELESS (8014-17-3)</b>	
LD50 oral	4311 mg/kg body weight
ATE CA (oral)	4311 mg/kg body weight
<b>IONONE BETA (14901-07-6)</b>	
LD50 oral rat	4590 mg/kg (Rat, Oral)
ATE CA (oral)	4590 mg/kg body weight
<b>Dimethylcyclohex-3-ene-1-carbaldehyde (isomer mixture) (68737-61-1)</b>	
LD50 oral	3600 mg/kg body weight
LD50 dermal	5000 mg/kg body weight
ATE CA (oral)	3600 mg/kg body weight
ATE CA (Dermal)	5000 mg/kg body weight
<b>Geraniol (106-24-1)</b>	
LD50 oral	3600 mg/kg body weight

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<b>Geraniol (106-24-1)</b>	
ATE CA (oral)	3600 mg/kg body weight

<b>CITRAL NATURAL (5392-40-5)</b>	
LD50 dermal	2250 mg/kg body weight
ATE CA (Dermal)	2250 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	: Suspected of causing cancer.
Reproductive toxicity	: Not classified

STOT-single exposure : Not classified

: 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>PINENE BETA (127-91-3)</b>	
LC50 fish 1	0.557 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Cyprinus carpio, Semi-static system, Fresh water, Weight of evidence, GLP)
EC50 Daphnia 1	1.248 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Semi-static system, Fresh water, Weight of evidence, GLP)
ErC50 (algae)	0.826 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Weight of evidence, GLP)
BCF other aquatic organisms 1	1125 (BCFBAF v3.00, Fresh water, QSAR, Fresh weight)
Log Pow	4.425 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C)
Log Koc	3.01 - 3.82 (log Koc, Calculated value)

<b>CITRONELLOL, NATURAL (106-22-9)</b>	
LC50 fish 1	10 - 22 mg/l (96 h, Leuciscus idus)
EC50 Daphnia 1	17 mg/l (48 h, Daphnia magna)
EC50 72h algae [mg/l] 1	2.4 mg/l (Algae)
Log Pow	3.41 - 3.91

<b>PINENE ALPHA (80-56-8)</b>	
BCF fish 1	718 (Pimephales promelas, QSAR)
Log Pow	4.487 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C)

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<b>CITRONELLOL (106-22-9)</b>	
LC50 fish 1	10 - 22 mg/l (96 h, <i>Leuciscus idus</i> )
EC50 Daphnia 1	17 mg/l (48 h, <i>Daphnia magna</i> )
EC50 72h algae [mg/l] 1	2.4 mg/l (Algae)
Log Pow	3.41 - 3.91

<b>DIPROPYLENE GLYCOL (DPG) (25265-71-8)</b>	
LC50 fish 1	> 1000 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, <i>Oryzias latipes</i> , Semi-static system, Fresh water, Experimental value)
LC50 other aquatic organisms 1	3181 mg/l (Other, 48 h, <i>Xenopus laevis</i> , Fresh water, Experimental value)
EC50 Daphnia 1	> 100 mg/l (OECD 202: <i>Daphnia</i> sp. Acute Immobilisation Test, 48 h, <i>Daphnia magna</i> , Static system, Fresh water, Experimental value)
EC50 72h algae [mg/l] 1	> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, <i>Desmodesmus subspicatus</i> , Fresh water, Experimental value)
Log Pow	-0.462 (Test data, Equivalent or similar to OECD 107, 21.7 °C)
Log Koc	0.78 (log Koc, Calculated value)

<b>ETHYL ACETOACETATE (141-97-9)</b>	
LC50 fish 1	> 100 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, <i>Danio rerio</i> , Semi-static system, Fresh water, Experimental value, GLP)
EC50 72h algae [mg/l] 1	> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, <i>Desmodesmus subspicatus</i> , Static system, Fresh water, Experimental value, GLP)
Log Pow	0.8 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 20 °C)

<b>DIETHYL PHTHALATE (DEP) (84-66-2)</b>	
LC50 fish 1	17 ppm (96 h, <i>Pimephales promelas</i> , Flow-through system)
EC50 Daphnia 1	52 mg/l (48 h, <i>Daphnia magna</i> )
EC50 72h algae [mg/l] 1	23 mg/l ( <i>Scenedesmus subspicatus</i> , Growth)
BCF fish 1	15 - 16 ( <i>Mugil cephalus</i> )
BCF fish 2	117.5 (504 h, <i>Lepomis macrochirus</i> )
BCF other aquatic organisms 1	1100 ppb ( <i>Ostreidae</i> , Fresh weight)
BCF other aquatic organisms 2	340 - 450 ppb ( <i>Lamellibranchiata</i> , Fresh weight)
Log Pow	1.4 - 2.82

<b>HYDROXY CITRONELLAL PURE (107-75-5)</b>	
Log Pow	2.11 (Estimated value)

<b>LINALOOL 90 (78-70-6)</b>	
LC50 fish 2	27.8 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; <i>Salmo gairdneri</i> )
EC50 Daphnia 1	59 mg/l (EC50; OECD 202: <i>Daphnia</i> sp. Acute Immobilisation Test; 48 h; <i>Daphnia magna</i> )
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, <i>Cyprinus carpio</i> )
EC50 Daphnia 1	15 mg/l (OECD 202: <i>Daphnia</i> sp. Acute Immobilisation Test, 48 h, <i>Daphnia magna</i> )
EC50 72h algae [mg/l] 1	16 mg/l (OECD 201: Alga, Growth Inhibition Test, <i>Scenedesmus subspicatus</i> )
Log Pow	3.93 (Experimental value)

<b>HEDIONE (24851-98-7)</b>	
Log Pow	3 (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, <i>Leuciscus idus</i> , Static system, Fresh water, Read-across)
EC50 Daphnia 1	14.1 mg/l (EU Method C.2, 48 h, <i>Daphnia magna</i> , Static system, Fresh water, Experimental value, GLP)
EC50 72h algae [mg/l] 1	3.72 mg/l (OECD 201: Alga, Growth Inhibition Test, <i>Desmodesmus subspicatus</i> , 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)

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<b>ORANGE SWEET 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)
Log Pow	2.78 - 4.88 (QSAR; KOWWIN)
<b>IONONE BETA (14901-07-6)</b>	
LC50 fish 1	5.1 mg/l (96 h, Pimephales promelas)
Log Pow	4.1
12.2. Persistence and degradability	
<b>PINENE BETA (127-91-3)</b>	
Persistence and degradability	Readily biodegradable in water.
<b>CITRONELLOL, NATURAL (106-22-9)</b>	
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
<b>PINENE ALPHA (80-56-8)</b>	
Persistence and degradability	Readily biodegradable in water.
<b>Tetrahydro-4-methyl-2-(2-methylpropen-1-yl)pyran (16409-43-1)</b>	
Persistence and degradability	Biodegradability in water: no data available.
ThOD	2.9 g O <sub>2</sub> /g substance
<b>CITRONELLOL (106-22-9)</b>	
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
<b>CYCLAMENALDEHYDE (103-95-7)</b>	
Persistence and degradability	Biodegradability in water: no data available.
<b>DIPROPYLENE GLYCOL (DPG) (25265-71-8)</b>	
Persistence and degradability	Readily biodegradable in water.
<b>ETHYL ACETOACETATE (141-97-9)</b>	
Persistence and degradability	Readily biodegradable in water.
<b>DIETHYL PHTHALATE (DEP) (84-66-2)</b>	
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.
<b>HYDROXY CITRONELLAL PURE (107-75-5)</b>	
Persistence and degradability	Readily biodegradable in water.
Chemical oxygen demand (COD)	2.65 g O <sub>2</sub> /g substance
<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.
<b>HEDIONE (24851-98-7)</b>	
Persistence and degradability	Readily biodegradable in water.
<b>METHYL CHAVICOL (ESTRAGOLE) (140-67-0)</b>	
Persistence and degradability	Biodegradability in soil: 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>TERPINYL ACETATE (80-26-2)</b>	
Persistence and degradability	Biodegradability in water: no data available.
<b>IONONE BETA (14901-07-6)</b>	
Persistence and degradability	Readily biodegradable in water.
ThOD	2.91 g O <sub>2</sub> /g substance

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### 12.3. Bioaccumulative potential

<b>PINENE BETA (127-91-3)</b>	
Bioaccumulative potential	Potential for bioaccumulation ( $500 \leq \text{BCF} \leq 5000$ ).
BCF other aquatic organisms 1	1125 (BCFBAF v3.00, Fresh water, QSAR, Fresh weight)
Log Pow	4.425 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C)
Log Koc	3.01 - 3.82 (log Koc, Calculated value)
<b>CITRONELLOL, NATURAL (106-22-9)</b>	
Log Pow	3.41 - 3.91
<b>PINENE ALPHA (80-56-8)</b>	
Bioaccumulative potential	Potential for bioaccumulation ( $500 \leq \text{BCF} \leq 5000$ ).
BCF fish 1	718 (Pimephales promelas, QSAR)
Log Pow	4.487 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C)
<b>Tetrahydro-4-methyl-2-(2-methylpropen-1-yl)pyran (16409-43-1)</b>	
Bioaccumulative potential	No bioaccumulation data available.
<b>CITRONELLOL (106-22-9)</b>	
Log Pow	3.41 - 3.91
<b>CYCLAMENALDEHYDE (103-95-7)</b>	
Bioaccumulative potential	No bioaccumulation data available.
<b>DIPROPYLENE GLYCOL (DPG) (25265-71-8)</b>	
Bioaccumulative potential	Bioaccumulation: not applicable.
Log Pow	-0.462 (Test data, Equivalent or similar to OECD 107, 21.7 °C)
Log Koc	0.78 (log Koc, Calculated value)
<b>ETHYL ACETOACETATE (141-97-9)</b>	
Bioaccumulative potential	Low potential for bioaccumulation ( $\text{Log Kow} < 4$ ).
Log Pow	0.8 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 20 °C)
<b>DIETHYL PHTHALATE (DEP) (84-66-2)</b>	
Bioaccumulative potential	Low potential for bioaccumulation ( $\text{BCF} < 500$ ).
BCF fish 1	15 - 16 (Mugil cephalus)
BCF fish 2	117.5 (504 h, Lepomis macrochirus)
BCF other aquatic organisms 1	1100 ppb (Ostreidae, Fresh weight)
BCF other aquatic organisms 2	340 - 450 ppb (Lamellibranchiata, Fresh weight)
Log Pow	1.4 - 2.82
<b>HYDROXY CITRONELLAL PURE (107-75-5)</b>	
Bioaccumulative potential	Low potential for bioaccumulation ( $\text{Log Kow} < 4$ ).
Log Pow	2.11 (Estimated 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 ( $\text{Log Kow} < 4$ ).
Log Pow	3.93 (Experimental value)
<b>HEDIONE (24851-98-7)</b>	
Log Pow	3 (Estimated value)
<b>METHYL CHAVICOL (ESTRAGOLE) (140-67-0)</b>	
Bioaccumulative potential	No bioaccumulation data available.
<b>GERANYL ACETATE PRIME (105-87-3)</b>	
Bioaccumulative potential	Potential for bioaccumulation ( $4 \geq \text{Log Kow} \leq 5$ ).
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>TERPINYL ACETATE (80-26-2)</b>	
Bioaccumulative potential	No bioaccumulation data available.

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<b>ORANGE SWEET OIL (8028-48-6)</b>	
BCF other aquatic organisms 1	32 - 395 (BCF; BCFWIN)
Log Pow	2.78 - 4.88 (QSAR; KOWWIN)
<b>IONONE BETA (14901-07-6)</b>	
Log Pow	4.1
<b>12.4. Mobility in soil</b>	
<b>PINENE BETA (127-91-3)</b>	
Ecology - soil	Low potential for mobility in soil.
Log Koc	3.01 - 3.82 (log Koc, Calculated value)
Log Pow	4.425 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C)
<b>CITRONELLOL, NATURAL (106-22-9)</b>	
Log Pow	3.41 - 3.91
<b>PINENE ALPHA (80-56-8)</b>	
Ecology - soil	Low potential for adsorption in soil. May be harmful to plant growth, blooming and fruit formation.
Log Pow	4.487 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C)
<b>CITRONELLOL (106-22-9)</b>	
Log Pow	3.41 - 3.91
<b>DIPROPYLENE GLYCOL (DPG) (25265-71-8)</b>	
Surface tension	71.4 mN/m (22 °C, 1.01 g/l)
Ecology - soil	Low potential for adsorption in soil.
Log Koc	0.78 (log Koc, Calculated value)
Log Pow	-0.462 (Test data, Equivalent or similar to OECD 107, 21.7 °C)
<b>ETHYL ACETOACETATE (141-97-9)</b>	
Ecology - soil	No (test) data on mobility of the substance available.
Log Pow	0.8 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 20 °C)
<b>DIETHYL PHTHALATE (DEP) (84-66-2)</b>	
Surface tension	0.0375 N/m (20 °C)
Log Pow	1.4 - 2.82
<b>HYDROXY CITRONELLAL PURE (107-75-5)</b>	
Log Pow	2.11 (Estimated value)
<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>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)
<b>ORANGE SWEET OIL (8028-48-6)</b>	
Log Pow	2.78 - 4.88 (QSAR; KOWWIN)
<b>IONONE BETA (14901-07-6)</b>	
Log Pow	4.1

### 12.5. Other adverse effects

Ozone : Not classified

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### SECTION 13: Disposal considerations

#### 13.1. Disposal methods

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

### 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

##### **PINENE BETA (127-91-3)**

Listed on the Canadian DSL (Domestic Substances List)

##### **CITRONELLOL, NATURAL (106-22-9)**

Listed on the Canadian DSL (Domestic Substances List)

##### **CYCLAL C (68039-49-6)**

Listed on the Canadian DSL (Domestic Substances List)

##### **VELOUTONE (65443-14-3)**

Listed on the Canadian DSL (Domestic Substances List)

##### **PINENE ALPHA (80-56-8)**

Listed on the Canadian DSL (Domestic Substances List)

##### **DYNASCONE (56973-85-4)**

Listed on the Canadian DSL (Domestic Substances List)

##### **Tetrahydro-4-methyl-2-(2-methylpropen-1-yl)pyran (16409-43-1)**

Listed on the Canadian DSL (Domestic Substances List)

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

Listed on the Canadian DSL (Domestic Substances List)

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

Listed on the Canadian DSL (Domestic Substances List)

##### **CYCLAMENALDEHYDE (103-95-7)**

Listed on the Canadian DSL (Domestic Substances List)

##### **DIPROPYLENE GLYCOL (DPG) (25265-71-8)**

Listed on the Canadian DSL (Domestic Substances List)

##### **ETHYL ACETOACETATE (141-97-9)**

Listed on the Canadian DSL (Domestic Substances List)

##### **DIETHYL PHTHALATE (DEP) (84-66-2)**

Listed on the Canadian DSL (Domestic Substances List)

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

Listed on the Canadian DSL (Domestic Substances List)

##### **GARDENOL (STYRALLYL ACETATE) (93-92-5)**

Listed on the Canadian DSL (Domestic Substances List)

##### **HYDROXY CITRONELLAL PURE (107-75-5)**

Listed on the Canadian DSL (Domestic Substances List)



# OIL, GREEN TEA\*

## Safety Data Sheet

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

<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>METHYL CHAVICOL (ESTRAGOLE) (140-67-0)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>MENTHOL CRYSTALS, USP (2216-51-5)</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>ANETHOLE NATURAL (4180-23-8)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>ALCOHOL C-12 (LAURIC) (112-53-8)</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>LEMON TERPENES (68917-33-9)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>TERPINYL ACETATE (80-26-2)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>ORANGE SWEET OIL (8028-48-6)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>PETITGRAIN TERPENELESS (8014-17-3)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>IONONE BETA (14901-07-6)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Dimethylcyclohex-3-ene-1-carbaldehyde (isomer mixture) (68737-61-1)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Geraniol (106-24-1)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>LIMONENE-L (138-86-3)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>CITRAL NATURAL (5392-40-5)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>LEMON ARGENTINA OIL (8008-56-8)</b>
Listed on the Canadian DSL (Domestic Substances List)

### 15.2. International regulations

<b>PINENE BETA (127-91-3)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory
<b>CITRONELLOL, NATURAL (106-22-9)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory
<b>CYCLAL C (68039-49-6)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory
<b>VELOUTONE (65443-14-3)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory
<b>PINENE ALPHA (80-56-8)</b>
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<b>DYNASCONE (56973-85-4)</b>
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Listed on the United States TSCA (Toxic Substances Control Act) inventory

# OIL, GREEN TEA\*

## Safety Data Sheet

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

<b>CITRAL SYNTHETIC (5392-40-5)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory
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<b>Geraniol (106-24-1)</b>
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<b>LIMONENE-L (138-86-3)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory

# OIL, GREEN TEA\*

## Safety Data Sheet

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

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

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

### LEMON ARGENTINA OIL (8008-56-8)

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 : 05/21/2020  
Supersedes : 11/20/2018

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
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H320	Causes eye irritation
H331	Toxic if inhaled
H332	Harmful if inhaled
H341	Suspected of causing genetic defects
H351	Suspected of causing cancer
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.*