



OIL, BEAST BLUE*

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, BEAST BLUE*
CAS-No. : N/A
Product code : 91-1048-56
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 - 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
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
Specific target organ toxicity (single exposure) Category 2	H371 May cause damage to organs

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
H371 - May cause damage to organs

Precautionary statements (GHS CA) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 - Wash hands, forearms and face thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
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+P311 - IF exposed or concerned: Call a POISON CENTER or doctor.
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.
P370+P378 - In case of fire: Use media other than water to extinguish.
P403 - Store in a well-ventilated place.

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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)
EUCALYPTOL	1,8-cineol / 1,8-cineole / 1,8-epoxy-para-menthane / 1,8-epoxy-p-menthane / 1,8-oxido-para-menthane / 1,8-oxido-p-menthane / 2-oxa-1,3,3-trimethylbicyclo(2.2.2)octane / 2-oxabicyclo(2.2.2)octane, 1,3,3-trimethyl- / 8-epoxy-para-menthane / 8-epoxy-p-menthane / cajeputol / cineole / eucalyptol / eucalyptole / eucapur / eukalyptol / FEMA N° 2465 / limonene oxide / para-cineole / para-menthane, 1,8-epoxy- / p-cineole / p-menthane, 1,8-epoxy- / terpan / zedoary oil	(CAS-No.) 470-82-6	25 - 50	Flam. Liq. 3, H226 Skin Sens. 1B, H317
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
6,7-Dihydro-1,1,2,3,3-pentamethyl-4(5H)-indanone		(CAS-No.) 33704-61-9	10 - 25	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1B, H317
DIOCTYL ADIPATE	adipic acid bis(2-ethylhexyl)ester / adipic acid di(2-ethylhexyl)ester / adipol 2EH / BEHA (=bis(2-ethylhexyl)adipate) / bis(2-ethylhexyl)adipate / bis(2-ethylhexyl)adipate, selectophore / bis(2-ethylhexyl)hexanedioate / bisoflex DOA / DEHA (=bis(2-ethylhexyl)adipate) / di(2-ethylhexyl)adipate / diisooctyladipate (=bis(2-ethylhexyl)adipate) / DOA (=bis(2-ethylhexyl)adipate) / effemoll DOA / effomoll DOA / ergoplast addo / flexol a26 / flexol plasticizer 10.a / flexol plasticizer a26 / good-rite plasticizer GP233 / harflex 250 / hexanedioic acid di(2-ethylhexyl)ester / hexanedioic acid dioctyl ester / hexanedioic acid, bis(2-ethylhexyl) ester / hexanedioic bis(2-ethylhexyl ester) / kemester 5652 / kodaflex doa / mollar s / monoplex doa / morflex 310 / octyl adipate (=bis(2-ethylhexyl)adipate) / PALATINOL DOA / PX238 / reomol DOA (=bis(2-ethylhexyl)adipate) / rucoflex plasticizer DOA / sicol 250 / staflex DOA / truflex DOA / uniflex DOA / vestinol OA / wickenol 158 / witamol 320	(CAS-No.) 103-23-1	5 - 10	Not classified
MENTHOL		(CAS-No.) 2216-51-5	5 - 10	Skin Irrit. 2, H315 Eye Irrit. 2A, H319

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ISOBORNYL ACETATE	1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acetate, exo- / 2-camphanyl acetate / 2-exo-bornanyl acetate / 2-exo-bornanylacetate / bicyclo(2.2.1)-1,7,7-trimethylheptanyl-2-acetate / bicyclo(2.2.1)heptan-2-ol, 1,7,7-trimethyl-, acetate, exo- / exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acetate / exo-1,7,7-trimethylbicyclo[2.2.1]heptan-2-ol, acetate / isoborneol, acetate / isoborneolcamphoracetate / isobornyl acetate / isobornyl alcohol acetate / pichtosin / pichtosine	(CAS-No.) 125-12-2	1 - 5	Flam. Liq. 4, H227
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-trimethyldicyclo(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	0.45 - 1.125	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304
Eucalyptol	1,8-cineol / 1,8-cineole / 1,8-epoxy-para-menthane / 1,8-epoxy-p-menthane / 1,8-oxido-para-menthane / 1,8-oxido-p-menthane / 2-oxa-1,3,3-trimethylbicyclo(2.2.2)octane / 2-oxabicyclo(2.2.2)octane, 1,3,3-trimethyl- / 8-epoxy-para-menthane / 8-epoxy-p-menthane / cajeputol / cineole / eucalyptol / eucalyptole / eucapur / eukalyptol / FEMA N° 2465 / limonene oxide / para-cineole / para-menthane, 1,8-epoxy- / p-cineole / p-menthane, 1,8-epoxy- / terpan / zedoary oil	(CAS-No.) 470-82-6	0.45 - 1.125	Flam. Liq. 3, H226 Skin Sens. 1B, H317
1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one		(CAS-No.) 76-22-2	0.45 - 1.125	Flam. Liq. 4, H227 Flam. Sol. 2, H228 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 STOT SE 2, H371
ORANGE TERPENES	(+)-1-methyl-4-isopropenyl-1-cyclohexene / (+)-4-isopropenyl-1-methylcyclohexene / (+)-cajeputene / (+)-carvene / (+)-citrene / (+)-parmentha-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
CAMPHOR		(CAS-No.) 76-22-2	1 - 5	Flam. Sol. 2, H228 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 STOT SE 2, H371
PARA CYMENE		(CAS-No.) 99-87-6	0.1 - 1	Flam. Liq. 3, H226 Asp. Tox. 1, H304
PATCHOULI OIL		(CAS-No.) 8014-09-3	0.1 - 1	Asp. Tox. 1, H304

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PIPERONAL	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 / geliotropin / heliotropin / piperonal / piperonaldehyde / piperonyl aldehyde / protocatechuic aldehyde methylene ether	(CAS-No.) 120-57-0	0.1 - 1	Skin Sens. 1B, H317
LEMONGRASS OIL		(CAS-No.) 8007-02-1	0.1 - 1	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1B, H317
p-Mentha-1,4-diene		(CAS-No.) 99-85-4	0.1 - 1	Flam. Liq. 3, H226 Asp. Tox. 1, H304
BETA PINENE		(CAS-No.) 18172-67-3	0.1 - 1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304
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 / pseudo-pinene / pseudopinene / pseudo-pinene / terebenthene(=beta-pinene)	(CAS-No.) 127-91-3	0.045 - 0.45	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304
CAMPHENE	2,2-dimethyl-3-methylenebicyclo(2.2.1)heptane / 2,2-dimethyl-3-methylenenorborane / 2,2-dimethyl-3-methylenenorbornane / 3,3-dimethyl-2-methylenenorbornane / 3,3-dimethyl-2-methylenenorcamphane / 3,3-dimethyl-2-methylenenorcamphene / 3,3-dimethyl-2-methylenenorcamphone / bicyclo(2.2.1)heptane, 2,2-dimethyl-3-methylene- / camphene / camphene, dl-form / FEMA No 2229	(CAS-No.) 79-92-5	0.045 - 0.45	Flam. Sol. 2, H228 Eye Irrit. 2B, H320
TERPINEOL	alpha-terpineol, mixture of isomers / mixture of para-menthenols / mixture of p-menthenols / para-menthenols, mixture / p-menthenols, mixture / terpineol / terpineol, anhydrous	(CAS-No.) 8000-41-7	0.045 - 0.45	Flam. Liq. 4, H227 Acute Tox. 3 (Inhalation:vapour), H331 Skin Irrit. 2, H315 Eye Irrit. 2A, H319
D,L-Limonene		(CAS-No.) 138-86-3	0.045 - 0.45	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304
LAVANDIN OIL		(CAS-No.) 8022-15-9	0.1 - 1	Flam. Liq. 4, H227 Eye Irrit. 2A, H319 Skin Sens. 1B, H317
β-Caryophyllene		(CAS-No.) 87-44-5	0.1 - 1	Skin Sens. 1B, H317 Asp. Tox. 1, H304
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	0.1 - 1	Acute Tox. 4 (Oral), H302

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Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
BORNEOL	(1S)-(-)-borneol / (1S,2R,4S)-(-)-borneol / (1S-endo)-1,7,7-trimethylbicyclo[2.2.1]heptan-2-ol / (1S-endo)-1,7,7-trimethylbicyclo[2.2.1]heptan-2-ol / [(1S-endo)-(-)-borneol / [1S]-endo-1,7,7-trimethylbicyclo[2.2.1]heptan-2-ol / 1,2-bornanol / 1,2-camphanol / 1,7,7-trimethylbicyclo[2.2.1]heptan-2-ol, [1S]-endo- / 1,7,7-trimethylbicyclo[2.2.1]heptan-2-ol, endo-(1S)- / 1-bornyl alcohol / 2-bornanol, l- / 2-bornanol, levo- / 2-camphanol, l- / 2-camphanol, levo- / bicyclo(2.2.1)heptan-2-ol, 1,7,7-trimethyl-, (1S-endo)- / bicyclo[2.2.1]heptan-2-ol, 1,7,7-trimethyl-, (1S-endo)- / borneol, (1S)-(-)- / borneol, (1S,2R,4S)-(-)- / borneol, [(1S)-endo]-(-)- / borneol, l- / borneol, L(-)- / borneol, levo- / endo-(1S)-1,7,7-trimethylbicyclo[2.2.1]heptan-2-ol / L(-)-borneol / l-2-bornanol / l-2-camphanol / l-borneol / levo-2-bornanol / levo-2-camphanol / levo-borneol / linderol / NGA1 camphor	(CAS-No.) 464-45-9	0.1 - 1	Flam. Sol. 2, H228
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-trimethyldicyclo(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	0.1 - 1	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Skin Sens. 1B, 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-yl 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
α -Terpineol		(CAS-No.) 98-55-5	0.1 - 1	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319
SAGE OIL		(CAS-No.) 8016-63-5	0.1 - 1	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317
THYME OIL		(CAS-No.) 8007-46-3	0.1 - 1	Flam. Liq. 3, H226 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Asp. Tox. 1, H304
JUNIPERBERRY OIL		(CAS-No.) 8002-68-4	0.1 - 1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 Asp. Tox. 1, H304
4-Carvomenthenol		(CAS-No.) 562-74-3	< 0.1	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319
OCTANAL		(CAS-No.) 124-13-0	< 0.1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2A, H319
MYRCENE	1,6-octadiene, 7-methyl-3-methylene / 2-methyl-6-methylene-2,7-octadiene / 3-methylene-7-methyl-1,6-octadiene / beta-myrcene / FEMA no 2762 / myrcene	(CAS-No.) 123-35-3	< 0.1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Asp. Tox. 1, H304

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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 / alloocimanol / 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	< 0.1	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 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	Not classified
NONANAL		(CAS-No.) 124-19-6	< 0.1	Flam. Liq. 4, H227
Eugenyl methyl ether		(CAS-No.) 93-15-2	<= 0.00045	Acute Tox. 4 (Oral), H302 Muta. 2, H341 Carc. 2, H351

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.

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

- Fire hazard : Combustible liquid.

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"

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protective equipment. Do not breathe 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

CAMPHOR (76-22-2)

USA - ACGIH - Occupational Exposure Limits

Local name	Camphor, synthetic
ACGIH TWA (ppm)	2 ppm
ACGIH STEL (ppm)	3 ppm
Remark (ACGIH)	Eye & URT irr; anosmia

USA - OSHA - Occupational Exposure Limits

Local name	Camphor, synthetic
OSHA PEL (TWA) (mg/m ³)	2 mg/m ³

ALPHA PINENE (80-56-8)

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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BETA-PINENE (127-91-3)

USA - ACGIH - Occupational Exposure Limits

ACGIH TWA (ppm)	20 ppm
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8.2. Appropriate engineering controls

- Appropriate engineering controls : Ensure good ventilation of the work station.
- Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Liquid
- Appearance : No data available

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Color	: Mixture contains one or more component(s) which have the following colour(s): White Colourless to light amber Colourless Colourless to light yellow Colourless to white Colourless to amber 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: Camphor odour Aromatic odour Mild odour Pine odour Floral odour Lemon odour Pleasant odour Fruity odour Characteristic 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	: 62 °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	: 0.946 (0.936 - 0.956)
Solubility	: Insoluble.
Log Pow	: No data available
Explosion limits	: No data available

9.2. Other information

Refractive index : 1.465 (1.455 - 1.475)

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.

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

CAMPHOR GUM, SYN USP (PWD) (76-22-2)	
LD50 oral	1500 mg/kg body weight
ATE CA (oral)	1500 mg/kg body weight
ATE CA (Gases)	4500 ppmV/4h
ATE CA (vapours)	11 mg/l/4h
ATE CA (dust,mist)	1.5 mg/l/4h
MENTHOL CRYSTALS, USP (2216-51-5)	
LD50 oral	2600 mg/kg body weight
ATE CA (oral)	2600 mg/kg body weight
DIOCTYL ADIPATE (DOA) (103-23-1)	
LD50 oral rat	> 20000 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male/female, Experimental value, Oral)
LC50 inhalation rat (mg/l)	> 5.7 mg/l air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male/female, Experimental value, Inhalation (aerosol))

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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
LINALOOL 90 (78-70-6)	
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
alpha-Pinene (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
Eucalyptol (470-82-6)	
LD50 oral rat	4500 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male/female, Experimental value, Oral, 14 day(s))
LD50 oral	2480 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, 15 day(s))
ATE CA (oral)	2480 mg/kg body weight
beta-Pinene (127-91-3)	
LD50 oral rat	4700 mg/kg (Rat, Oral)
ATE CA (oral)	4700 mg/kg body weight
Camphene (79-92-5)	
LD50 oral rat	> 5000 mg/kg (Rat, Oral)
LD50 dermal rabbit	> 2500 mg/kg (Rabbit, Dermal)
1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one (76-22-2)	
LD50 oral	1500 mg/kg body weight
ATE CA (oral)	1500 mg/kg body weight
ATE CA (Gases)	4500 ppmV/4h
ATE CA (vapours)	11 mg/l/4h
ATE CA (dust,mist)	1.5 mg/l/4h
Terpineol (8000-41-7)	
LD50 oral rat	> 2000 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male/female, Experimental value, Oral)
LD50 oral	4300 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)
LC50 inhalation rat (mg/l)	> 4.76 mg/l (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male/female, Inhalation (aerosol))
ATE CA (oral)	4300 mg/kg body weight
ATE CA (vapours)	3 mg/l/4h
THYME PURE (RED) SPANISH (8007-46-3)	
LD50 oral	2840 mg/kg body weight
ATE CA (oral)	2840 mg/kg body weight
HELIOTROPINE CRYSTALS (120-57-0)	
LD50 oral rat	2700 mg/kg (Rat, Oral)
LD50 oral	2700 mg/kg body weight
LD50 dermal rat	> 5000 mg/kg (Rat, Dermal)
ATE CA (oral)	2700 mg/kg body weight
PARA CYMENE (99-87-6)	
LD50 oral	4750 mg/kg body weight
ATE CA (oral)	4750 mg/kg body weight
TERPINENE-4-OL (562-74-3)	
LD50 oral	1300 mg/kg body weight

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TERPINENE-4-OL (562-74-3)	
LD50 dermal	2500 mg/kg body weight
ATE CA (oral)	1300 mg/kg body weight
ATE CA (Dermal)	2500 mg/kg body weight
EUCALYPTOL USP OIL (470-82-6)	
LD50 oral rat	4500 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male/female, Experimental value, Oral, 14 day(s))
LD50 oral	2480 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, 15 day(s))
ATE CA (oral)	2480 mg/kg body weight
LEMONGRASS INDIAN OIL (8007-02-1)	
LD50 dermal	3103 mg/kg body weight
ATE CA (Dermal)	3103 mg/kg body weight
TERPINENE GAMMA (99-85-4)	
LD50 oral	3850 mg/kg body weight
ATE CA (oral)	3850 mg/kg body weight
ISO BORNYL ACETATE (125-12-2)	
LD50 oral rat	> 10000 mg/kg (Rat, Oral)
LD50 dermal rabbit	> 20000 mg/kg (Rabbit, Dermal)
HEDIONE (24851-98-7)	
LD50 oral rat	> 5000 mg/kg (Rat, Oral)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit, Dermal)
ORANGE TERPENES (68647-72-3)	
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)
TERPINEOL ALPHA (98-55-5)	
LD50 oral	4300 mg/kg body weight
ATE CA (oral)	4300 mg/kg body weight
BENZYL BENZOATE (120-51-4)	
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
CASHMERAN (33704-61-9)	
LD50 oral	2900 mg/kg body weight
ATE CA (oral)	2900 mg/kg body weight
Eugenyl methyl ether (93-15-2)	
LD50 oral	1180 mg/kg body weight
ATE CA (oral)	1180 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	: Not classified

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STOT-single exposure : May cause damage to organs.

CAMPHOR GUM, SYN USP (PWD) (76-22-2)	
STOT-single exposure	May cause damage to organs.

1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one (76-22-2)	
STOT-single exposure	May cause damage to organs.

: 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

DIOCTYL ADIPATE (DOA) (103-23-1)	
LC50 fish 1	54 - 150 mg/l (96 h, <i>Salmo gairdneri</i> , Static system)
EC50 Daphnia 1	> 500 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	> 500 mg/l (DIN 38412-9, <i>Scenedesmus subspicatus</i> , Static system, Fresh water, Experimental value, Biomass)
BCF fish 1	27 (Other, 28 day(s), <i>Lepomis macrochirus</i> , Flow-through system, Fresh water, Experimental value)
BCF fish 2	3.162 (Calculated value)
Log Pow	8.1 (Calculated)
Log Koc	4.687 (log Koc, SRC PCKOCWIN v1.66, Calculated value)

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

LINALOOL 90 (78-70-6)	
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)

Myrcene (123-35-3)	
Log Pow	5.285 (Literature, 25 °C)

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

Eucalyptol (470-82-6)	
LC50 fish 1	57 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, <i>Oncorhynchus mykiss</i> , Semi-static system, Fresh water, Experimental value, GLP)
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, GLP)
ErC50 (algae)	> 74 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, <i>Pseudokirchneriella subcapitata</i> , Static system, Fresh water, Experimental value, GLP)
Log Pow	3.4 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method)

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Eucalyptol (470-82-6)	
Log Koc	2.33 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value)

beta-Pinene (127-91-3)	
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)

Camphene (79-92-5)	
LC50 fish 1	0.72 mg/l (96 h, Brachydanio rerio, Technical product)
EC50 Daphnia 1	22 mg/l (48 h, Daphnia magna, Technical product)
EC50 72h algae [mg/l] 1	> 1000 mg/l (Scenedesmus subspicatus, Technical product)
BCF fish 1	432 - 1290 (Cyprinus carpio, Test duration: 8 weeks)
Log Pow	4.02

Terpineol (8000-41-7)	
LC50 fish 1	62 - 80 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Semi-static system, Fresh water, Experimental value, GLP)
EC50 Daphnia 1	73 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
ErC50 (algae)	68 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)
Log Pow	2.57 (Estimated value)

HELIOTROPINE CRYSTALS (120-57-0)	
Log Pow	1.05

EUCALYPTOL USP OIL (470-82-6)	
LC50 fish 1	57 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Semi-static system, Fresh water, Experimental value, GLP)
EC50 Daphnia 1	> 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
ErC50 (algae)	> 74 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)
Log Pow	3.4 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method)
Log Koc	2.33 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value)

ISO BORNYL ACETATE (125-12-2)	
LC50 fish 1	10 - 18 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Brachydanio rerio)
Log Pow	3.5 (QSAR)

LINALYL ACETATE SPECIAL (115-95-7)	
LC50 fish 1	11 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Cyprinus carpio)
EC50 Daphnia 1	15 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna)
EC50 72h algae [mg/l] 1	16 mg/l (OECD 201: Alga, Growth Inhibition Test, Scenedesmus subspicatus)
Log Pow	3.93 (Experimental value)

HEDIONE (24851-98-7)	
Log Pow	3 (Estimated value)

ORANGE TERPENES (68647-72-3)	
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)

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ORANGE TERPENES (68647-72-3)	
Log Pow	4.38 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 37 °C)
BENZYL BENZOATE (120-51-4)	
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)

12.2. Persistence and degradability

BORNEOL (464-45-9)	
Persistence and degradability	Biodegradable in water.
ThOD	2.9 g O ₂ /g substance
DIOCTYL ADIPATE (DOA) (103-23-1)	
Persistence and degradability	Readily biodegradable in water.
PINENE ALPHA (80-56-8)	
Persistence and degradability	Readily biodegradable in water.
LINALOOL 90 (78-70-6)	
Persistence and degradability	Readily biodegradable in water.
Biochemical oxygen demand (BOD)	1.531 g O ₂ /g substance
Chemical oxygen demand (COD)	2.808 g O ₂ /g substance
Myrcene (123-35-3)	
Persistence and degradability	Readily biodegradable in water.
alpha-Pinene (80-56-8)	
Persistence and degradability	Readily biodegradable in water.
Eucalyptol (470-82-6)	
Persistence and degradability	Readily biodegradable in water.
beta-Pinene (127-91-3)	
Persistence and degradability	Readily biodegradable in water.
Camphene (79-92-5)	
Persistence and degradability	Not readily biodegradable in water.
Terpineol (8000-41-7)	
Persistence and degradability	Readily biodegradable in water.
ThOD	2.9 g O ₂ /g substance
HELIOTROPINE CRYSTALS (120-57-0)	
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.
ThOD	1.71 g O ₂ /g substance
EUCALYPTOL USP OIL (470-82-6)	
Persistence and degradability	Readily biodegradable in water.
ISO BORNYL ACETATE (125-12-2)	
Persistence and degradability	Readily biodegradable in water.
LINALYL ACETATE SPECIAL (115-95-7)	
Persistence and degradability	Readily biodegradable in water.
HEDIONE (24851-98-7)	
Persistence and degradability	Readily biodegradable in water.
ORANGE TERPENES (68647-72-3)	
Persistence and degradability	Readily biodegradable in water.
ThOD	3.29 g O ₂ /g substance
BENZYL BENZOATE (120-51-4)	
Persistence and degradability	Readily biodegradable in water.

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12.3. Bioaccumulative potential

BORNEOL (464-45-9)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
DIOCTYL ADIPATE (DOA) (103-23-1)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
BCF fish 1	27 (Other, 28 day(s), Lepomis macrochirus, Flow-through system, Fresh water, Experimental value)
BCF fish 2	3.162 (Calculated value)
Log Pow	8.1 (Calculated)
Log Koc	4.687 (log Koc, SRC PCKOCWIN v1.66, Calculated value)
PINENE ALPHA (80-56-8)	
Bioaccumulative potential	Potential for bioaccumulation (500 ≤ BCF ≤ 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)
LINALOOL 90 (78-70-6)	
Bioaccumulative potential	Bioaccumable.
Log Pow	2.84 - 3.145
Myrcene (123-35-3)	
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5).
Log Pow	5.285 (Literature, 25 °C)
alpha-Pinene (80-56-8)	
Bioaccumulative potential	Potential for bioaccumulation (500 ≤ BCF ≤ 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)
Eucalyptol (470-82-6)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
Log Pow	3.4 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method)
Log Koc	2.33 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value)
beta-Pinene (127-91-3)	
Bioaccumulative potential	Potential for bioaccumulation (500 ≤ BCF ≤ 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)
Camphene (79-92-5)	
Bioaccumulative potential	Potential for bioaccumulation (500 ≤ BCF ≤ 5000).
BCF fish 1	432 - 1290 (Cyprinus carpio, Test duration: 8 weeks)
Log Pow	4.02
Terpineol (8000-41-7)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
Log Pow	2.57 (Estimated value)
HELIOTROPINE CRYSTALS (120-57-0)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
Log Pow	1.05
EUCALYPTOL USP OIL (470-82-6)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
Log Pow	3.4 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method)
Log Koc	2.33 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value)
ISO BORNYL ACETATE (125-12-2)	
Bioaccumulative potential	No bioaccumulation data available.
Log Pow	3.5 (QSAR)
LINALYL ACETATE SPECIAL (115-95-7)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

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LINALYL ACETATE SPECIAL (115-95-7)	
Log Pow	3.93 (Experimental value)
HEDIONE (24851-98-7)	
Log Pow	3 (Estimated value)
ORANGE TERPENES (68647-72-3)	
Bioaccumulative potential	Potential for bioaccumulation ($4 \geq \text{Log Kow} \leq 5$).
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)
BENZYL BENZOATE (120-51-4)	
Bioaccumulative potential	Low potential for bioaccumulation ($\text{Log Kow} < 4$).
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)
12.4. Mobility in soil	
DIOCTYL ADIPATE (DOA) (103-23-1)	
Ecology - soil	Low potential for mobility in soil.
Log Koc	4.687 (log Koc, SRC PCKOCWIN v1.66, Calculated value)
Log Pow	8.1 (Calculated)
PINENE ALPHA (80-56-8)	
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)
LINALOOL 90 (78-70-6)	
Log Pow	2.84 - 3.145
Myrcene (123-35-3)	
Ecology - soil	No (test)data on mobility of the substance available.
Log Pow	5.285 (Literature, 25 °C)
alpha-Pinene (80-56-8)	
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)
Eucalyptol (470-82-6)	
Surface tension	61.5 mN/m (20 °C, 1 g/l, EU Method A.5: Surface tension)
Ecology - soil	Low potential for adsorption in soil.
Log Koc	2.33 (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	3.4 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method)
beta-Pinene (127-91-3)	
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)
Camphene (79-92-5)	
Log Pow	4.02
Terpineol (8000-41-7)	
Ecology - soil	Highly mobile in soil.
Log Pow	2.57 (Estimated value)
HELIOTROPINE CRYSTALS (120-57-0)	
Log Pow	1.05
EUCALYPTOL USP OIL (470-82-6)	
Surface tension	61.5 mN/m (20 °C, 1 g/l, EU Method A.5: Surface tension)
Ecology - soil	Low potential for adsorption in soil.
Log Koc	2.33 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value)

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EUCALYPTOL USP OIL (470-82-6)	
Log Pow	3.4 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method)
ISO BORNYL ACETATE (125-12-2)	
Log Pow	3.5 (QSAR)
LINALYL ACETATE SPECIAL (115-95-7)	
Ecology - soil	Adsorbs into the soil.
Log Pow	3.93 (Experimental value)
HEDIONE (24851-98-7)	
Log Pow	3 (Estimated value)
ORANGE TERPENES (68647-72-3)	
Ecology - soil	Adsorbs into the soil.
Log Pow	4.38 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 37 °C)
BENZYL BENZOATE (120-51-4)	
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)

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

CAMPHOR GUM, SYN USP (PWD) (76-22-2)	
Listed on the Canadian DSL (Domestic Substances List)	
MENTHOL CRYSTALS, USP (2216-51-5)	
Listed on the Canadian DSL (Domestic Substances List)	
BORNEOL (464-45-9)	
Listed on the Canadian DSL (Domestic Substances List)	
DIOCTYL ADIPATE (DOA) (103-23-1)	
Listed on the Canadian DSL (Domestic Substances List)	

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ALDEHYDE C-09 (124-19-6)
Listed on the Canadian DSL (Domestic Substances List)
ALDEHYDE C-08 (124-13-0)
Listed on the Canadian DSL (Domestic Substances List)
PINENE ALPHA (80-56-8)
Listed on the Canadian DSL (Domestic Substances List)
PATCHOULI INDONESIAN OIL (8014-09-3)
Listed on the Canadian DSL (Domestic Substances List)
LINALOOL 90 (78-70-6)
Listed on the Canadian DSL (Domestic Substances List)
Myrcene (123-35-3)
Listed on the Canadian DSL (Domestic Substances List)
alpha-Pinene (80-56-8)
Listed on the Canadian DSL (Domestic Substances List)
Eucalyptol (470-82-6)
Listed on the Canadian DSL (Domestic Substances List)
beta-Pinene (127-91-3)
Listed on the Canadian DSL (Domestic Substances List)
Camphene (79-92-5)
Listed on the Canadian DSL (Domestic Substances List)
1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one (76-22-2)
Listed on the Canadian DSL (Domestic Substances List)
Terpineol (8000-41-7)
Listed on the Canadian DSL (Domestic Substances List)
THYME PURE (RED) SPANISH (8007-46-3)
Listed on the Canadian DSL (Domestic Substances List)
HELIOTROPINE CRYSTALS (120-57-0)
Listed on the Canadian DSL (Domestic Substances List)
PARA CYMENE (99-87-6)
Listed on the Canadian DSL (Domestic Substances List)
TERPINENE-4-OL (562-74-3)
Listed on the Canadian DSL (Domestic Substances List)
EUCALYPTOL USP OIL (470-82-6)
Listed on the Canadian DSL (Domestic Substances List)
JUNIPERBERRY PURE OIL (8002-68-4)
Listed on the Canadian DSL (Domestic Substances List)
LEMONGRASS INDIAN OIL (8007-02-1)
Listed on the Canadian DSL (Domestic Substances List)
TERPINENE GAMMA (99-85-4)
Listed on the Canadian DSL (Domestic Substances List)
ISO BORNYL ACETATE (125-12-2)
Listed on the Canadian DSL (Domestic Substances List)
LINALYL ACETATE SPECIAL (115-95-7)
Listed on the Canadian DSL (Domestic Substances List)
HEDIONE (24851-98-7)
Listed on the Canadian DSL (Domestic Substances List)
ORANGE TERPENES (68647-72-3)
Listed on the Canadian DSL (Domestic Substances List)
TERPINEOL ALPHA (98-55-5)
Listed on the Canadian DSL (Domestic Substances List)
AMBROFIX (6790-58-5)
Listed on the Canadian DSL (Domestic Substances List)

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BENZYL BENZOATE (120-51-4)
Listed on the Canadian DSL (Domestic Substances List)
PINENE BETA, NATURAL (18172-67-3)
Listed on the Canadian DSL (Domestic Substances List)
CARYOPHYLLENE B (87-44-5)
Listed on the Canadian DSL (Domestic Substances List)
CASHMERAN (33704-61-9)
Listed on the Canadian DSL (Domestic Substances List)
D,L-Limonene (138-86-3)
Listed on the Canadian DSL (Domestic Substances List)
LAVANDIN GROSSO PURE OIL (8022-15-9)
Listed on the Canadian DSL (Domestic Substances List)
Eugenyl methyl ether (93-15-2)
Listed on the Canadian DSL (Domestic Substances List)
Canada DSL & NDSL Flags Significant New Activity (SNAc) provisions of the DSL Act apply to a substance that was already on the DSL

15.2. International regulations

CAMPHOR GUM, SYN USP (PWD) (76-22-2)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
MENTHOL CRYSTALS, USP (2216-51-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
BORNEOL (464-45-9)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
DIOCTYL ADIPATE (DOA) (103-23-1)
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Listed on the United States TSCA (Toxic Substances Control Act) inventory
HELIOTROPINE CRYSTALS (120-57-0)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

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PARA CYMENE (99-87-6)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
TERPINENE-4-OL (562-74-3)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
EUCALYPTOL USP OIL (470-82-6)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
JUNIPERBERRY PURE OIL (8002-68-4)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
LEMONGRASS INDIAN OIL (8007-02-1)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
TERPINENE GAMMA (99-85-4)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
ISO BORNYL ACETATE (125-12-2)
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
ORANGE TERPENES (68647-72-3)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
TERPINEOL ALPHA (98-55-5)
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CASHMERAN (33704-61-9)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
D,L-Limonene (138-86-3)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
LAVANDIN GROSSO PURE OIL (8022-15-9)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Eugenyl methyl ether (93-15-2)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

SECTION 16: Other information

SDS Major/Minor	: None
Issue date	: 08/07/2019
Revision date	: 05/22/2020
Supersedes	: 02/13/2020

Full text of H-phrases:

H226	Flammable liquid and vapour
H227	Combustible liquid
H228	Flammable solid
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

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H320	Causes eye irritation
H331	Toxic if inhaled
H332	Harmful if inhaled
H341	Suspected of causing genetic defects
H351	Suspected of causing cancer
H371	May cause damage to organs

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.