



OIL, PEAR POMEGRANATE*

Safety Data Sheet

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

Issue date: 08/27/2019

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Version: 1.0

SECTION 1: Identification

1.1. Product identifier

Product form : Mixture
Product name : OIL, PEAR POMEGRANATE*
CAS-No. : N/A
Product code : 91-1011-75
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

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

Precautionary statements (GHS CA) :

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.
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.
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.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

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2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS CA)

No data available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
3-METHOXY-3 METHYL-1-BUTANOL		(CAS-No.) 56539-66-3	25 - 50	Flam. Liq. 4, H227 Eye Irrit. 2A, H319
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	25 - 50	Not classified
ORANGE OIL		(CAS-No.) 8028-48-6	5 - 10	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304
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	1 - 5	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1B, H317
DIPROPYLENE GLYCOL	diisopropylene glycol / DPG / oxidipropanol / oxybispropanol / oxydipropanol / propanol, oxybis-	(CAS-No.) 25265-71-8	1 - 5	Not classified
Ethyl methylphenylglycidate		(CAS-No.) 77-83-8	1 - 5	Skin Sens. 1B, H317
3,7-Dimethyloct-6-en-3-ol		(CAS-No.) 18479-51-1	1 - 5	Flam. Liq. 4, H227
ETHYL 2-METHYLBUTYRATE		(CAS-No.) 7452-79-1	1 - 5	Flam. Liq. 3, H226
MENTHOL		(CAS-No.) 2216-51-5	1 - 5	Skin Irrit. 2, H315 Eye Irrit. 2A, H319
METHYL DIHYDROAJASMONATE	cyclopentaneacetic acid, 3-oxo-2-pentyl-, methyl ester / methyl (2-pentyl-3-oxocyclopentyl)acetate / methyl 3-oxo-2-pentylcyclopentaneacetate / methyl dihydrojasmonate	(CAS-No.) 24851-98-7	0.1 - 1	Not classified

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Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
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	0.1 - 1	Not classified
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
Butylated hydroxytoluene		(CAS-No.) 128-37-0	0.1 - 1	Not classified
HEXYL ACETATE		(CAS-No.) 142-92-7	0.1 - 1	Flam. Liq. 3, H226
α,α -Dimethylphenethyl butyrate		(CAS-No.) 10094-34-5	0.1 - 1	Not classified
LEMON OIL		(CAS-No.) 8008-56-8	0.1 - 1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304
GAMMA UNDECALACTONE		(CAS-No.) 104-67-6	0.1 - 1	Not classified
AMYL CINNAMIC ALDEHYDE		(CAS-No.) 122-40-7	0.1 - 1	Skin Sens. 1B, H317
TRICYCLODECENYL ACETATE		(CAS-No.) 5413-60-5	0.1 - 1	Not classified
ETHYL BUTYRATE		(CAS-No.) 105-54-4	0.1 - 1	Flam. Liq. 3, H226
PEPPERMINT OIL		(CAS-No.) 8006-90-4	0.1 - 1	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 Asp. Tox. 1, H304
ALLYL HEXANOATE		(CAS-No.) 123-68-2	0.1 - 1	Flam. Liq. 4, H227 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Inhalation:vapour), H331
DECANAL		(CAS-No.) 112-31-2	0.1 - 1	Flam. Liq. 4, H227 Eye Irrit. 2A, H319
ALLYL HEPTOATE		(CAS-No.) 142-19-8	0.1 - 1	Flam. Liq. 4, H227 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311
3a,4,5,6,7,7a-Hexahydro-4,7-methano-1H-indenyl propionate (mixture of isomers)		(CAS-No.) 68912-13-0	0.1 - 1	Not classified
GAMMA DECALACTONE	(+/-)-4-n-hexylbutyrolactone / (+/-)-4-normal-hexylbutyrolactone / (+/-)-gamma-decalactone / (+/-)-gamma-decanolactone / (R/S)-gamma-decalactone / 2(3H)-furanone, 5-hexyldihydro- / 2-decalactone / 4,5-dihydro-5-hexyl-2(3H)-furanone / 4-hexyl-4-butanolide / 4-hexyl-gamma-butyrolactone / 4-hydroxydecanoic acid lactone / 4-hydroxydecanoic acid-gamma-lactone / 5-hexyldihydro-2(3H)-furanone / 5-hexyltetrahydro-2-furanone / decalactone gamma / decan-4-olide / decanoic acid, 4-hydroxy-, gamma-lactone / decanolactone(=gamma-decanolactone) / decanolide-1,4 / gamma-decalactone / gamma-decalactone,(R/S)- / gamma-decanolactone / gamma-decanolide / gamma-hexylbutyrolactone / gamma-hexyl-gamma-butyrolactone / gamma-n-decalactone / gamma-n-hexyl-gamma-butyrolactone / gamma-normal-decalactone / gamma-normal-hexyl-gamma-butyrolactone / hydroxydecanoic acid-gamma-lactone	(CAS-No.) 706-14-9	0.1 - 1	Not classified
STYRALLYL ACETATE		(CAS-No.) 93-92-5	0.1 - 1	Not classified

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4-(p-Hydroxyphenyl)-2-butanone	1-(para-hydroxyphenyl)-3-butanone / 1-(p-hydroxyphenyl)-3-butanone / 2-butanone, 4-(4-hydroxyphenyl)- / 2-butanone, 4-(para-hydroxyphenyl)- / 2-butanone, 4-(p-hydroxyphenyl)- / 4-(para-hydroxyphenyl)-2-butanone / 4-(p-hydroxyphenyl)-2-butanone / FEMA N. 2588 / frambinone / oxyphenalon / para-hydroxybenzyl acetone / p-hydroxybenzyl acetone / raspberry keton / raspberry ketone / rheosmin	(CAS-No.) 5471-51-2	0.1 - 1	Acute Tox. 4 (Oral), H302
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
LEMON OIL TERPENES		(CAS-No.) 68917-33-9	0.1 - 1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304
ANISIC ALDEHYDE	4-anisaldehyde / anisaldehyde / anisic aldehyde / aubepine / benzaldehyde, 4-methoxy- / crategine / FEMA no 2670 / obepin / p-anisaldehyde / p-anisic aldehyde / para-anisaldehyde / para-anisic aldehyde / para-formylanisole / para-methoxybenzaldehyde / p-formylanisole / p-methoxybenzaldehyde	(CAS-No.) 123-11-5	0.1 - 1	Not classified
trans-p-Menthan-3-one		(CAS-No.) 89-80-5	0.1 - 1	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Skin Sens. 1B, H317
trans-Anethole	(E)-1-methoxy-4-(1-propenyl)benzene / (E)-4-propenylanisole / (E)-anethole / (E)-para-propenylanisole / (E)-p-propenylanisole / 1-methoxy-4-[1-propenyl]benzene, (E)- / 4-propenylanisole, (E)- / anethol, trans- / ANETHOLE 21/22 DEGREES "D" DSA / anethole, (E)- / anethole, trans- / anisole, para-propenyl-, (E)- / anisole, para-propenyl-, trans- / anisole, 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	Flam. Liq. 4, H227 Skin Sens. 1B, H317
MALTOL	2-methyl pyromeconic acid / 2-methyl-3-hydroxy-4-pyrone / 2-methyl-3-oxy-gamma-pyrone / 3-hydroxy-2-methyl-4H-pyran-4-one / 3-hydroxy-2-methyl-4-pyranone / 3-hydroxy-2-methyl-4-pyrone / 3-hydroxy-2-methyl-gamma-pyrone / 4H-pyran-4-one, 3-hydroxy-2-methyl- / carixinic acid / corps praline / larixic acid / larixinic acid / maltol / palatone / talmon / veltol / vetol	(CAS-No.) 118-71-8	< 0.1	Acute Tox. 4 (Oral), H302
FENCHYL ALCOHOL		(CAS-No.) 1632-73-1	< 0.1	Flam. Liq. 4, H227
DELTA DAMASCONE		(CAS-No.) 57378-68-4	< 0.1	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Skin Sens. 1A, H317

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Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
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 / pseudo-pinene / terebenthene(=beta-pinene)	(CAS-No.) 127-91-3	0.02 - 0.03	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304
BUTYL ACETATE		(CAS-No.) 123-86-4	< 0.1	Flam. Liq. 3, H226 STOT SE 3, H336
Cinnamionitrile		(CAS-No.) 4360-47-8	< 0.1	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Skin Sens. 1B, H317
(E)-1-(2,6,6-Trimethyl-2-cyclohexen-1-yl)-2-buten-1-one		(CAS-No.) 24720-09-0	< 0.1	Acute Tox. 4 (Oral), H302 Skin Sens. 1B, H317
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 / cephrol / 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	0.002 - 0.005	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Skin Sens. 1B, H317
2,2,5-Trimethyl-5-pentylcyclopentanone		(CAS-No.) 65443-14-3	0.002 - 0.005	Flam. Liq. 4, H227
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
CITRAL		(CAS-No.) 5392-40-5	< 0.1	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1B, H317
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	0.001 - 0.002	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	0.0002 - 0.001	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	0.0002 - 0.001	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Repr. 2, H361
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

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SECTION 4: First-aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
- First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell.

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

- Symptoms/effects after skin contact : 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"

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. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.
- Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

CITRAL (5392-40-5)

USA - ACGIH - Occupational Exposure Limits

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

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BUTYL ACETATE (123-86-4)	
USA - ACGIH - Occupational Exposure Limits	
Local name	n-Butyl acetate
ACGIH TWA (ppm)	150 ppm
ACGIH STEL (ppm)	200 ppm
Remark (ACGIH)	Eye & URT irr
USA - OSHA - Occupational Exposure Limits	
Local name	n-Butyl-acetate
OSHA PEL (TWA) (mg/m ³)	710 mg/m ³
OSHA PEL (TWA) (ppm)	150 ppm
Butylated hydroxytoluene (128-37-0)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Butylated hydroxytoluene
ACGIH TWA (mg/m ³)	2 mg/m ³
Remark (ACGIH)	URT irr
BETA PINENE (127-91-3)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH TWA (ppm)	20 ppm
ALPHA PINENE (80-56-8)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH TWA (ppm)	20 ppm
CITRAL (5392-40-5)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Citral
ACGIH TWA (ppm)	5 ppm
Remark (ACGIH)	Body weight eff; URT irr; eye dam; Skin; DSEN; A4 (Not classifiable as a Human Carcinogen: Agents which cause concern that they could be carcinogenic for humans but which cannot be assessed conclusively because of a lack of data. In vitro or animal studies do not provide indications of carcinogenicity which are sufficient to classify the agent into one of the other categories)

8.2. Appropriate engineering controls

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

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

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): Colourless Light yellow White Colourless to light amber Colourless to yellow Colourless to white Colourless to light 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: Almost odourless Alcohol odour Floral odour Mild odour Pleasant odour Aromatic odour Pine odour Characteristic odour Fruity odour Strong odour Sweet odour Lemon 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	: 63 °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	: 0.915 (0.905 - 0.925)
Solubility	: Insoluble.
Log Pow	: No data available
Explosion limits	: No data available

9.2. Other information

Refractive index : 1.445 (1.435 - 1.455)

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

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
DAMASCONE DELTA (57378-68-4)	
LD50 oral	1400 mg/kg body weight
ATE CA (oral)	1400 mg/kg body weight
ALLYL HEPTOATE PURE (142-19-8)	
LD50 oral	218 mg/kg body weight
LD50 dermal	810 mg/kg body weight
ATE CA (oral)	218 mg/kg body weight

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ALLYL HEPTOATE PURE (142-19-8)	
ATE CA (Dermal)	810 mg/kg body weight
AMYL CINNAMIC ALDEHYDE PURE (122-40-7)	
LD50 oral	3730 mg/kg body weight
ATE CA (oral)	3730 mg/kg body weight
ANISIC ALDEHYDE (123-11-5)	
LD50 oral rat	3210 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male/female, Experimental value, Oral, 14 day(s))
LD50 oral	3210 mg/kg body weight
LD50 dermal rabbit	> 5000 mg/kg (Rabbit, Experimental value, Dermal, 14 day(s))
ATE CA (oral)	3210 mg/kg body weight
CITRAL SYNTHETIC (5392-40-5)	
LD50 dermal	2250 mg/kg body weight
ATE CA (Dermal)	2250 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
CINNAMALVA (4360-47-8)	
LD50 oral	275 mg/kg body weight
LD50 dermal	1910 mg/kg body weight
ATE CA (oral)	275 mg/kg body weight
ATE CA (Dermal)	1910 mg/kg body weight
CYCLACET (5413-60-5)	
LD50 oral	3050 mg/kg body weight
ATE CA (oral)	3050 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 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
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
Geraniol (106-24-1)	
LD50 oral	3600 mg/kg body weight
ATE CA (oral)	3600 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
Dimethylcyclohex-3-ene-1-carbaldehyde (isomer mixture) (68737-61-1)	
LD50 oral	3600 mg/kg body weight

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Dimethylcyclohex-3-ene-1-carbaldehyde (isomer mixture) (68737-61-1)	
LD50 dermal	5000 mg/kg body weight
ATE CA (oral)	3600 mg/kg body weight
ATE CA (Dermal)	5000 mg/kg body weight
MENTHOL CRYSTALS, USP (2216-51-5)	
LD50 oral	2600 mg/kg body weight
ATE CA (oral)	2600 mg/kg body weight
CITRAL NATURAL (5392-40-5)	
LD50 dermal	2250 mg/kg body weight
ATE CA (Dermal)	2250 mg/kg body weight
MALTOL (118-71-8)	
LD50 oral rat	1410 mg/kg (Rat, Oral)
LD50 oral	1440 mg/kg body weight
ATE CA (oral)	1410 mg/kg body weight
MENTHONE PURE & NATURAL 70/30 (89-80-5)	
LD50 oral	2500 mg/kg body weight
ATE CA (oral)	2500 mg/kg body weight
HEDIONE (24851-98-7)	
LD50 oral rat	> 5000 mg/kg (Rat, Oral)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit, Dermal)
METHOXY-3 METHYL-3 BUTANOL (56539-66-3)	
ATE CA (oral)	4400 mg/kg body weight
DECALACTONE GAMMA (706-14-9)	
LD50 oral rat	5000 mg/kg (Rat, Oral)
ATE CA (oral)	5000 mg/kg body weight
IONONE BETA (14901-07-6)	
LD50 oral rat	4590 mg/kg (Rat, Oral)
ATE CA (oral)	4590 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))
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
DAMASCONE ALPHA (24720-09-0)	
LD50 oral	1670 mg/kg body weight
LD50 dermal	2900 mg/kg body weight
ATE CA (oral)	1670 mg/kg body weight
ATE CA (Dermal)	2900 mg/kg body weight
FENCHYL ALCOHOL ALPHA (1632-73-1)	
LD50 oral	2500 mg/kg body weight
ATE CA (oral)	2500 mg/kg body weight
ALLYL HEXANOATE (123-68-2)	
LD50 oral	300 mg/kg body weight
LD50 dermal	300 mg/kg body weight
LC50 inhalation rat (Vapors - mg/l/4h)	3 mg/l/4h
ATE CA (oral)	300 mg/kg body weight
ATE CA (Dermal)	300 mg/kg body weight
ATE CA (Gases)	700 ppmV/4h
ATE CA (vapours)	3 mg/l/4h
ATE CA (dust,mist)	0.5 mg/l/4h

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ANETHOLE NATURAL (4180-23-8)	
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

ORANGE SWEET OIL (8028-48-6)	
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)

OXYPHENYLON (5471-51-2)	
LD50 oral rat	1320 mg/kg (Rat, Oral)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit, Dermal)
ATE CA (oral)	1320 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

STOT-single exposure : Not classified

BUTYL ACETATE (123-86-4)	
STOT-single exposure	May cause drowsiness or dizziness.

: Not classified

STOT-repeated exposure

Aspiration hazard : Not classified

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

Symptoms/effects after eye contact : Eye irritation.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

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

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

DIPROPYLENE GLYCOL (DPG) (25265-71-8)	
LC50 fish 1	> 1000 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oryzias latipes, Semi-static system, Fresh water, Experimental value)
LC50 other aquatic organisms 1	3181 mg/l (Other, 48 h, Xenopus laevis, Fresh water, Experimental value)
EC50 Daphnia 1	> 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value)
EC50 72h algae [mg/l] 1	> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, Desmodesmus subspicatus, 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)

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ANISIC ALDEHYDE (123-11-5)	
LC50 fish 1	148.32 mg/l (DIN 38412: German standard methods for the examination of water, waste water and sludge, 96 h, Leuciscus idus, Static system, Fresh water, Experimental value)
EC50 Daphnia 1	82.8 mg/l (EU Method C.2, 48 h, Daphnia magna, Static system, Fresh water, Experimental value)
EC50 72h algae [mg/l] 1	81.11 mg/l (DIN 38412-9, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Growth rate)
Log Pow	1.56 (Experimental value, Equivalent or similar to OECD 107, 25 °C)
Log Koc	1 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
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)
PINENE BETA (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)
CITRONELLOL, NATURAL (106-22-9)	
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
PINENE ALPHA (80-56-8)	
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)
MALTOL (118-71-8)	
Log Pow	0.09 (Experimental value)
HEDIONE (24851-98-7)	
Log Pow	3 (Estimated value)
IONONE BETA (14901-07-6)	
LC50 fish 1	5.1 mg/l (96 h, Pimephales promelas)
Log Pow	4.1
DIOCTYL ADIPATE (DOA) (103-23-1)	
LC50 fish 1	54 - 150 mg/l (96 h, Salmo gairdneri, Static system)
EC50 Daphnia 1	> 500 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value)
EC50 72h algae [mg/l] 1	> 500 mg/l (DIN 38412-9, Scenedesmus subspicatus, Static system, Fresh water, Experimental value, Biomass)
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)

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LINALOOL 90 (78-70-6)	
LC50 fish 2	27.8 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Salmo gairdneri)
EC50 Daphnia 1	59 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna)
EC50 other aquatic organisms 1	>= 100 mg/l (3 h; Activated sludge)
Log Pow	2.84 - 3.145
Threshold limit algae 1	88.3 mg/l (EC50; 96 h)

ORANGE SWEET OIL (8028-48-6)	
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)

12.2. Persistence and degradability

DIPROPYLENE GLYCOL (DPG) (25265-71-8)	
Persistence and degradability	Readily biodegradable in water.

ANISIC ALDEHYDE (123-11-5)	
Persistence and degradability	Readily biodegradable in water.

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

PINENE BETA (127-91-3)	
Persistence and degradability	Readily biodegradable in water.

CITRONELLOL, NATURAL (106-22-9)	
Persistence and degradability	Readily biodegradable in water.
Chemical oxygen demand (COD)	2.05 g O ₂ /g substance
ThOD	2.961 g O ₂ /g substance

PINENE ALPHA (80-56-8)	
Persistence and degradability	Readily biodegradable in water.

Tetrahydro-4-methyl-2-(2-methylpropen-1-yl)pyran (16409-43-1)	
Persistence and degradability	Biodegradability in water: no data available.
ThOD	2.9 g O ₂ /g substance

MALTOL (118-71-8)	
Persistence and degradability	Biodegradability in water: no data available.
ThOD	1.52 g O ₂ /g substance

HEDIONE (24851-98-7)	
Persistence and degradability	Readily biodegradable in water.

DECALACTONE GAMMA (706-14-9)	
Persistence and degradability	Biodegradability in water: no data available.

IONONE BETA (14901-07-6)	
Persistence and degradability	Readily biodegradable in water.
ThOD	2.91 g O ₂ /g substance

DIOCTYL ADIPATE (DOA) (103-23-1)	
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

OXYPHENYLON (5471-51-2)	
Persistence and degradability	Biodegradability in water: no data available.

12.3. Bioaccumulative potential

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

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ANISIC ALDEHYDE (123-11-5)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
Log Pow	1.56 (Experimental value, Equivalent or similar to OECD 107, 25 °C)
Log Koc	1 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
BENZYL BENZOATE (120-51-4)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
BCF fish 1	2.286 (BCFBAF v3.00, Pisces, QSAR)
Log Pow	3.97 (Experimental value, 25 °C)
Log Koc	3.8 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value)
PINENE BETA (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)
CITRONELLOL, NATURAL (106-22-9)	
Log Pow	3.41 - 3.91
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)
Tetrahydro-4-methyl-2-(2-methylpropen-1-yl)pyran (16409-43-1)	
Bioaccumulative potential	No bioaccumulation data available.
MALTOL (118-71-8)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
Log Pow	0.09 (Experimental value)
HEDIONE (24851-98-7)	
Log Pow	3 (Estimated value)
DECALACTONE GAMMA (706-14-9)	
Bioaccumulative potential	No bioaccumulation data available.
IONONE BETA (14901-07-6)	
Log Pow	4.1
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)
LINALOOL 90 (78-70-6)	
Bioaccumulative potential	Bioaccumable.
Log Pow	2.84 - 3.145
ORANGE SWEET OIL (8028-48-6)	
BCF other aquatic organisms 1	32 - 395 (BCF; BCFWIN)
Log Pow	2.78 - 4.88 (QSAR; KOWWIN)
OXYPHENYLON (5471-51-2)	
Bioaccumulative potential	No bioaccumulation data available.
12.4. Mobility in soil	
DIPROPYLENE GLYCOL (DPG) (25265-71-8)	
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)
ANISIC ALDEHYDE (123-11-5)	
Ecology - soil	Highly mobile in soil.

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ANISIC ALDEHYDE (123-11-5)	
Log Koc	1 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Log Pow	1.56 (Experimental value, Equivalent or similar to OECD 107, 25 °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)
PINENE BETA (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)
CITRONELLOL, NATURAL (106-22-9)	
Log Pow	3.41 - 3.91
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)
MALTOL (118-71-8)	
Log Pow	0.09 (Experimental value)
HEDIONE (24851-98-7)	
Log Pow	3 (Estimated value)
IONONE BETA (14901-07-6)	
Log Pow	4.1
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)
LINALOOL 90 (78-70-6)	
Log Pow	2.84 - 3.145
ORANGE SWEET OIL (8028-48-6)	
Log Pow	2.78 - 4.88 (QSAR; KOWWIN)

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

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IATA

Not regulated for transport

SECTION 15: Regulatory information

15.1. National regulations

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

Listed on the Canadian DSL (Domestic Substances List)

DAMASCONE DELTA (57378-68-4)

Listed on the Canadian DSL (Domestic Substances List)

ALDEHYDE C-10 (112-31-2)

Listed on the Canadian DSL (Domestic Substances List)

ALLYL HEPTOATE PURE (142-19-8)

Listed on the Canadian DSL (Domestic Substances List)

UNDECALACTONE GAMMA (104-67-6)

Listed on the Canadian DSL (Domestic Substances List)

ALDEHYDE C-16 (77-83-8)

Listed on the Canadian DSL (Domestic Substances List)

AMYL CINNAMIC ALDEHYDE PURE (122-40-7)

Listed on the Canadian DSL (Domestic Substances List)

ANISIC ALDEHYDE (123-11-5)

Listed on the Canadian DSL (Domestic Substances List)

CITRAL SYNTHETIC (5392-40-5)

Listed on the Canadian DSL (Domestic Substances List)

CYCLAPROP (68912-13-0)

Listed on the Canadian DSL (Domestic Substances List)

BUTYL ACETATE (123-86-4)

Listed on the Canadian DSL (Domestic Substances List)

BENZYL BENZOATE (120-51-4)

Listed on the Canadian DSL (Domestic Substances List)

CINNAMALVA (4360-47-8)

Listed on the Canadian DSL (Domestic Substances List)

BHT (128-37-0)

Listed on the Canadian DSL (Domestic Substances List)

CYCLACET (5413-60-5)

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 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)

PINENE ALPHA (80-56-8)

Listed on the Canadian DSL (Domestic Substances List)

LIMONENE-L (138-86-3)

Listed on the Canadian DSL (Domestic Substances List)

DYNASCONE (56973-85-4)

Listed on the Canadian DSL (Domestic Substances List)

Geraniol (106-24-1)

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)

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Dimethylcyclohex-3-ene-1-carbaldehyde (isomer mixture) (68737-61-1)
Listed on the Canadian DSL (Domestic Substances List)
MENTHOL CRYSTALS, USP (2216-51-5)
Listed on the Canadian DSL (Domestic Substances List)
ETHYL BUTYRATE (105-54-4)
Listed on the Canadian DSL (Domestic Substances List)
ETHYL-2-METHYL BUTYRATE (7452-79-1)
Listed on the Canadian DSL (Domestic Substances List)
CITRAL NATURAL (5392-40-5)
Listed on the Canadian DSL (Domestic Substances List)
LEMON ARGENTINA OIL (8008-56-8)
Listed on the Canadian DSL (Domestic Substances List)
LEMON TERPENES (68917-33-9)
Listed on the Canadian DSL (Domestic Substances List)
MALTOL (118-71-8)
Listed on the Canadian DSL (Domestic Substances List)
MENTHONE PURE & NATURAL 70/30 (89-80-5)
Listed on the Canadian DSL (Domestic Substances List)
HEDIONE (24851-98-7)
Listed on the Canadian DSL (Domestic Substances List)
METHOXY-3 METHYL-3 BUTANOL (56539-66-3)
Listed on the Canadian DSL (Domestic Substances List)
DECALACTONE GAMMA (706-14-9)
Listed on the Canadian DSL (Domestic Substances List)
GARDENOL (STYRALLYL ACETATE) (93-92-5)
Listed on the Canadian DSL (Domestic Substances List)
IONONE BETA (14901-07-6)
Listed on the Canadian DSL (Domestic Substances List)
DIOCTYL ADIPATE (DOA) (103-23-1)
Listed on the Canadian DSL (Domestic Substances List)
DIHYDRO LINALOOL (18479-51-1)
Listed on the Canadian DSL (Domestic Substances List)
LINALOOL 90 (78-70-6)
Listed on the Canadian DSL (Domestic Substances List)
DAMASCONE ALPHA (24720-09-0)
Listed on the Canadian DSL (Domestic Substances List)
FENCHYL ALCOHOL ALPHA (1632-73-1)
Listed on the Canadian DSL (Domestic Substances List)
ALLYL HEXANOATE (123-68-2)
Listed on the Canadian DSL (Domestic Substances List)
ANETHOLE NATURAL (4180-23-8)
Listed on the Canadian DSL (Domestic Substances List)
HEXYL ACETATE, PURE (142-92-7)
Listed on the Canadian DSL (Domestic Substances List)
ORANGE SWEET OIL (8028-48-6)
Listed on the Canadian DSL (Domestic Substances List)
OXYPHENYLON (5471-51-2)
Listed on the Canadian DSL (Domestic Substances List)
DMBC BUTYRATE (10094-34-5)
Listed on the Canadian DSL (Domestic Substances List)
PEPPERMINT YAKIMA NATURAL (8006-90-4)
Listed on the Canadian DSL (Domestic Substances List)

15.2. International regulations

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

DIPROPYLENE GLYCOL (DPG) (25265-71-8)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
DAMASCONE DELTA (57378-68-4)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
ALDEHYDE C-10 (112-31-2)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
ALLYL HEPTOATE PURE (142-19-8)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
UNDECALACTONE GAMMA (104-67-6)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
ALDEHYDE C-16 (77-83-8)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
AMYL CINNAMIC ALDEHYDE PURE (122-40-7)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
ANISIC ALDEHYDE (123-11-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
CITRAL SYNTHETIC (5392-40-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
CYCLAPROP (68912-13-0)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
BUTYL ACETATE (123-86-4)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
BENZYL BENZOATE (120-51-4)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
CINNAMALVA (4360-47-8)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
BHT (128-37-0)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
CYCLACET (5413-60-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
CYCLAL C (68039-49-6)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
VELOUTONE (65443-14-3)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
PINENE BETA (127-91-3)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
CITRONELLOL, NATURAL (106-22-9)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
PINENE ALPHA (80-56-8)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
LIMONENE-L (138-86-3)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
DYNASCONE (56973-85-4)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Geraniol (106-24-1)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Tetrahydro-4-methyl-2-(2-methylpropen-1-yl)pyran (16409-43-1)
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Listed on the United States TSCA (Toxic Substances Control Act) inventory

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

ETHYL BUTYRATE (105-54-4)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
ETHYL-2-METHYL BUTYRATE (7452-79-1)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
CITRAL NATURAL (5392-40-5)
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Listed on the United States TSCA (Toxic Substances Control Act) inventory
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Listed on the United States TSCA (Toxic Substances Control Act) inventory
ORANGE SWEET OIL (8028-48-6)
Not listed on the United States TSCA (Toxic Substances Control Act) inventory
OXYPHENYLON (5471-51-2)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
DMBC BUTYRATE (10094-34-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
PEPPERMINT YAKIMA NATURAL (8006-90-4)
Not listed on the United States TSCA (Toxic Substances Control Act) inventory

SECTION 16: Other information

SDS Major/Minor : None
Issue date : 08/27/2019
Revision date : 08/27/2019

OIL, PEAR POMEGRANATE*

Safety Data Sheet

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

Full text of H-phrases:

H226	Flammable liquid and vapour
H227	Combustible liquid
H301	Toxic if swallowed
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H311	Toxic in contact with skin
H312	Harmful in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H331	Toxic if inhaled
H336	May cause drowsiness or dizziness
H361	Suspected of damaging fertility or the unborn child

SDS Canada (GHS)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.