OIL, WHITE TEA & GINGER II*

Safety Data Sheet

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

Issue date: 12/22/2020 Version: 1.0

SECTION 1: Identification

1.1. Product identifier

Product form : Mixture

Product name : OIL, WHITE TEA & GINGER II*

Product code : 90-3044-67

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)

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
Reproductive toxicity Category 2	H361 Suspected of damaging fertility or the unborn child
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) : H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H361 - Suspected of damaging fertility or the unborn child
H371 - May cause damage to organs

Precautionary statements (GHS CA) : P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
P261 - Avoid breathing dust/fume/gas/mist/vapors/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.
P308+P313 - IF exposed or concerned: Get medical advice/attention.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P332+P313 - If skin irritation occurs: Get medical advice/attention.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P405 - Store locked up.
P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation.

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)
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 / mollan 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	≥ 50	Not classified
ETHYLENE BRASSYLATE		(CAS-No.) 105-95-3	5 – 10	Not classified
p-t-Butyl-α-methylhydrocinnamic aldehyde	2-(4-tert-butylbenzyl)propionaldehyde / 2-(4-tertiary-butylbenzyl)propionaldehyde / 2-methyl-3-(4-(1,1-dimethylethyl)phenyl)propanal / 3-(para-tert-butylphenyl)-2-methyl-propanal / 3-(p-tert-butylphenyl)-2-methyl-propanal / 4-(1,1-dimethylethyl)-alpha-methyl-benzenepropanal / alpha-methyl, beta-(p-tert-butylphenyl)propionaldehyde / alpha-methyl-p-(tert-butyl)hydrocinnamal / alpha-methyl-p-(tert-butyl)hydrocinnamaldehyde / alpha-methyl-para-(tertiary-butyl)hydrocinnamal / alpha-methyl-para-(tertiary-butyl)hydrocinnamaldehyde / benzenepropanal, 4-(1,1-dimethylethyl)-alpha-methyl- / butylphenyl methylpropional / hydrocinnamaldehyde, p-tert-butyl-alpha- / hydrocinnamaldehyde, p-tert-butyl-alpha-methyl- / lilestralis / LILIAL / LILYAL / lysmeral extra / para-tert-butyl-alpha-methylhydrocinnamic aldehyde / para-tertiary-butyl-alpha-methylhydrocinnamaldehyde / para-tertiary-butyl-alpha-methylhydrocinnamic aldehyde / propionaldehyde, beta-(4-tert-butylphenyl)-alpha-methyl- / protectol pp / p-tert-butyl-alpha-methylhydrocinnamaldehyde / p-tert-butyl-alpha-methylhydrocinnamic aldehyde	(CAS-No.) 80-54-6	5 – 10	Acute Tox. 4 (Oral), H302 Acute Tox. 1 (Inhalation:vapor), H330 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Repr. 2, H361

Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
METHYL DIHYDROAJASMONATE	cyclopentaneacetic acid, 3-oxo-2-pentyl-, methyl ester / methyl (2-pentyl-3-oxocyclopentyl)acetate / methyl 3-oxo-2-pentylcyclopentaneacetate / methyl dihydrojasmonate	(CAS-No.) 24851-98-7	5 – 10	Not classified
1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylcyclopenta-γ-2-benzopyran		(CAS-No.) 1222-05-5	5 – 10	Flam. Liq. 4, H227
ISOPROPYL MYRISTATE	1-methylethyltetradecanoate / 1-tridecane carboxylic acid,isopropyl ester / bisomel / crodacol IPM / crodamol IPM / deltyl extra / emcol-IM / emerest 2314 / estergel / IPM / isomyst / isopropyl myristate / isopropyl tetradecanoate / isopropylmyristate D-50 / isopropylmyristate NF / ja-fa IPM / kessco IPM / kessco isopropyl myristate / kesscomir / myristic acid isopropyl ester / plymoutm IPM / promyr / sinnoester MIP / starfol IPM / stepan D-50 / tegester / tetradecanoic acid 1-methylethyl ester / tetradecanoic acid isopropyl ester / tetradecanoic acid, 1-methylethyl ester / tetradecanoic acid,isopropyl / unimate IPM / wickenol 101	(CAS-No.) 110-27-0	5 – 10	Not classified
LINALYL ACETATE	1,5-dimethyl-1-vinyl-4-hexenyl acetate / 1,6-octadien-3-ol, 3,7-dimethyl-, acetate / 3,7-dimethyl-1,6-octadien-3-ol acetate / 3,7-dimethyl-1,6-octadien-3-yl acetate / acetic acid linalool ester / bergamiol / bergamol / bergamot mint oil / ex bois de rose (synthetic) / FEMA No. 2636 / licareol acetate / linalol acetate / linalool acetate / linalyl acetate / linalyl acetate synthetic	(CAS-No.) 115-95-7	1 – 5	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2B, H320 Skin Sens. 1B, H317
STYRALLYL ACETATE		(CAS-No.) 93-92-5	1 – 5	Not classified
ORANGE TERPENES	(+)-1-methyl-4-isopropenyl-1-cyclohexene / (+)-4-isopropenyl-1-methylcyclohexene / (+)-cajeputene / (+)-carvene / (+)-citrene / (+)-para-mentha-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
CITRAL		(CAS-No.) 5392-40-5	1 – 5	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1B, H317
SAGE OIL	SAGE DALMATIAN OIL	(CAS-No.) 8022-56-8	1 – 5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 2, H371 Asp. Tox. 1, H304
SAGE OIL		(CAS-No.) 8016-63-5	1 – 5	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317

Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
α-Methylbenzyl alcohol		(CAS-No.) 98-85-1	1 – 5	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Eye Irrit. 2A, H319
CARROT SEED OIL		(CAS-No.) 8015-88-1	0.1 – 1	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 Asp. Tox. 1, H304
GINGER OIL		(CAS-No.) 8007-08-7	0.1 – 1	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 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-ocimenol / 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 – 1	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1B, H317
α-Methyl-1,3-benzodioxole-5-propionaldehyde		(CAS-No.) 1205-17-0	0.1 – 1	Skin Sens. 1B, H317 Repr. 2, H361
BERGAMOT OIL		(CAS-No.) 89957-91-5	0.1 – 1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 Repr. 2, H361 Asp. Tox. 1, H304
PETITGRAIN OIL		(CAS-No.) 8014-17-3	0.1 – 1	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell.

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

No additional information available

4.3. Immediate medical attention and special treatment, if necessary

Other medical advice or treatment : Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Unsuitable extinguishing media

No additional information available

5.3. Specific hazards arising from the hazardous product

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

5.4. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No additional information available

6.2. Methods and materials for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.

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. Wear personal protective equipment.

Hygiene measures : 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)

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

Personal protective equipment symbol(s):

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : No data available

Color : Mixture contains one or more component(s) which have the following colour(s): Colourless to light amber Colourless 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: Aromatic odour Mild odour Odourless Floral odour Lemon 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	:	100 °C
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Flammability (solid, gas)	:	Not applicable
Vapor pressure	:	No data available
Vapor pressure at 50 °C	:	No data available
Relative density	:	0.939 (0.929 – 0.949)
Solubility	:	Insoluble.
Partition coefficient n-octanol/water (Log Pow)	:	No data available
Explosion limits	:	No data available

9.2. Other information

Refractive index	:	1.462 (1.452 – 1.472)

SECTION 10: Stability and reactivity

Reactivity	:	The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	No dangerous reactions known under normal conditions of use.
Conditions to avoid	:	None under recommended storage and handling conditions (see section 7).
Incompatible materials	:	No additional information available
Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hardening time:	:	No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	:	Not classified
Acute toxicity (dermal)	:	Not classified
Acute toxicity (inhalation)	:	Not classified

CITRAL (5392-40-5)	
LD50 dermal	2250 mg/kg body weight
ATE CA (Dermal)	2250 mg/kg body weight

DIOCTYL ADIPATE (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	> 5.7 mg/l air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (aerosol))

α-Methyl-1,3-benzodioxole-5-propionaldehyde (1205-17-0)	
LD50 oral	3562 mg/kg body weight
ATE CA (oral)	3562 mg/kg body weight

SAGE OIL (8022-56-8)	
LD50 oral	2600 mg/kg body weight
ATE CA (oral)	2600 mg/kg body weight

p-t-Butyl-α-methylhydrocinnamic aldehyde (80-54-6)	
LD50 oral rat	1390 mg/kg (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))

p-t-Butyl-α-methylhydrocinnamic aldehyde (80-54-6)	
LD50 oral	1390 mg/kg body weight
LD50 dermal rat	> 2000 mg/kg (Equivalent or similar to OECD 402, Rat, Male / female, Experimental value, Dermal, 14 day(s))
LC50 Inhalation - Rat	> 0.18 mg/l (IRT (inhalation risk test), 7 h, Rat, Male / female, Experimental value, Inhalation (vapours), 14 day(s))
ATE CA (oral)	1390 mg/kg body weight
ATE CA (<tx:_INHAL_CONDITION_vaporS_TR>)	0.05 mg/l/4h

LINALOOL (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

LINALYL ACETATE (115-95-7)	
LD50 oral rat	> 9000 mg/kg body weight (BASF test, Rat, Male / female, Experimental value, Oral, 7 day(s))
LD50 dermal rabbit	> 5000 mg/kg body weight (Rabbit, Experimental value, Dermal, 14 day(s))

METHYL DIHYDROAJASMONATE (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)

α-Methylbenzyl alcohol (98-85-1)	
LD50 oral	400 mg/kg body weight
LD50 dermal	3750 mg/kg body weight
ATE CA (oral)	400 mg/kg body weight
ATE CA (Dermal)	3750 mg/kg body weight

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitization : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Suspected of damaging fertility or the unborn child.

STOT-single exposure : May cause damage to organs.

SAGE OIL (8022-56-8)	
STOT-single exposure	May cause damage to organs.

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

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 (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 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)
Partition coefficient n-octanol/water (Log Pow)	8.1 (Calculated)
Partition coefficient n-octanol/water (Log Koc)	4.687 (log Koc, SRC PCKOCWIN v1.66, Calculated value)

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

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

LINALOOL (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)
Partition coefficient n-octanol/water (Log Pow)	2.84 – 3.145
Threshold limit algae 1	88.3 mg/l (EC50; 96 h)

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

METHYL DIHYDROAJASMONATE (24851-98-7)	
Partition coefficient n-octanol/water (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)
ErC50 (algae)	0.32 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)
BCF fish 1	864.8 – 1022 (Pisces, QSAR, Fresh weight)
Partition coefficient n-octanol/water (Log Pow)	4.38 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 37 °C)

12.2. Persistence and degradability

DIOCTYL ADIPATE (103-23-1)	
Persistence and degradability	Readily biodegradable in water.

ISOPROPYL MYRISTATE (110-27-0)	
Persistence and degradability	Readily biodegradable in water.
Chemical oxygen demand (COD)	2.74 g O_2/g substance

ISOPROPYL MYRISTATE (110-27-0)	
ThOD	2.9 g O_2/g substance

p-t-Butyl-α-methylhydrocinnamic aldehyde (80-54-6)	
Persistence and degradability	Readily biodegradable in water.

LINALOOL (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

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

METHYL DIHYDROAJASMONATE (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

12.3. Bioaccumulative potential

DIOCTYL ADIPATE (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)
Partition coefficient n-octanol/water (Log Pow)	8.1 (Calculated)
Partition coefficient n-octanol/water (Log Koc)	4.687 (log Koc, SRC PCKOCWIN v1.66, Calculated value)

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

p-t-Butyl-α-methylhydrocinnamic aldehyde (80-54-6)	
Bioaccumulative potential	Potential for bioaccumulation (4 ≥ Log Kow ≤ 5).
Partition coefficient n-octanol/water (Log Pow)	4.2 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 24 °C)
Partition coefficient n-octanol/water (Log Koc)	3.11 (log Koc, PCKOCWIN v1.66, Calculated value)

LINALOOL (78-70-6)	
Bioaccumulative potential	Bioaccumable.
Partition coefficient n-octanol/water (Log Pow)	2.84 – 3.145

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

METHYL DIHYDROAJASMONATE (24851-98-7)	
Partition coefficient n-octanol/water (Log Pow)	3 (Estimated value)

ORANGE TERPENES (68647-72-3)	
Bioaccumulative potential	Potential for bioaccumulation (4 ≥ Log Kow ≤ 5).
BCF fish 1	864.8 – 1022 (Pisces, QSAR, Fresh weight)
Partition coefficient n-octanol/water (Log Pow)	4.38 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 37 °C)

12.4. Mobility in soil

DIOCTYL ADIPATE (103-23-1)	
Ecology - soil	Low potential for mobility in soil.
Partition coefficient n-octanol/water (Log Koc)	4.687 (log Koc, SRC PCKOCWIN v1.66, Calculated value)
Partition coefficient n-octanol/water (Log Pow)	8.1 (Calculated)

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

p-t-Butyl-α-methylhydrocinnamic aldehyde (80-54-6)	
Ecology - soil	Low potential for mobility in soil.
Partition coefficient n-octanol/water (Log Koc)	3.11 (log Koc, PCKOCWIN v1.66, Calculated value)

p-t-Butyl-α-methylhydrocinnamic aldehyde (80-54-6)	
Partition coefficient n-octanol/water (Log Pow)	4.2 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 24 °C)

LINALOOL (78-70-6)	
Partition coefficient n-octanol/water (Log Pow)	2.84 – 3.145

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

METHYL DIHYDROAJASMONATE (24851-98-7)	
Partition coefficient n-octanol/water (Log Pow)	3 (Estimated value)

ORANGE TERPENES (68647-72-3)	
Ecology - soil	Adsorbs into the soil.
Partition coefficient n-octanol/water (Log Pow)	4.38 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 37 °C)

12.5. Other adverse effects

Ozone : Not classified

SECTION 13: Disposal considerations

13.1. Disposal methods

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

SECTION 14: Transport information

14.1. Basic shipping description

In accordance with TDG

Transportation of Dangerous Goods

Not regulated for transport

14.2. Transport information/DOT

Department of Transport

Not regulated for transport

14.3. Air and sea transport

IMDG

Not regulated for transport

IATA

Not regulated for transport

SECTION 15: Regulatory information

15.1. National regulations

CITRAL (5392-40-5)
Listed on the Canadian DSL (Domestic Substances List)

DIOCTYL ADIPATE (103-23-1)
Listed on the Canadian DSL (Domestic Substances List)

ETHYLENE BRASSYLATE (105-95-3)
Listed on the Canadian DSL (Domestic Substances List)

1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylcyclopenta-γ-2-benzopyran (1222-05-5)
Listed on the Canadian DSL (Domestic Substances List)

ISOPROPYL MYRISTATE (110-27-0)
Listed on the Canadian DSL (Domestic Substances List)

STYRALLYL ACETATE (93-92-5)
Listed on the Canadian DSL (Domestic Substances List)

α-Methyl-1,3-benzodioxole-5-propionaldehyde (1205-17-0)
Listed on the Canadian DSL (Domestic Substances List)

BERGAMOT OIL (89957-91-5)
Listed on the Canadian DSL (Domestic Substances List)

CARROT SEED OIL (8015-88-1)
Listed on the Canadian DSL (Domestic Substances List)

GINGER OIL (8007-08-7)
Listed on the Canadian DSL (Domestic Substances List)

PETITGRAIN OIL (8014-17-3)
Listed on the Canadian DSL (Domestic Substances List)

SAGE OIL (8022-56-8)
Listed on the Canadian DSL (Domestic Substances List)

p-t-Butyl-α-methylhydrocinnamic aldehyde (80-54-6)
Listed on the Canadian DSL (Domestic Substances List)

LINALOOL (78-70-6)
Listed on the Canadian DSL (Domestic Substances List)

LINALYL ACETATE (115-95-7)
Listed on the Canadian DSL (Domestic Substances List)

METHYL DIHYDROAJASMONATE (24851-98-7)
Listed on the Canadian DSL (Domestic Substances List)

ORANGE TERPENES (68647-72-3)
Listed on the Canadian DSL (Domestic Substances List)

α-Methylbenzyl alcohol (98-85-1)
Listed on the Canadian DSL (Domestic Substances List)

15.2. International regulations

CITRAL (5392-40-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

DIOCTYL ADIPATE (103-23-1)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

ETHYLENE BRASSYLATE (105-95-3)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylcyclopenta-γ-2-benzopyran (1222-05-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

ISOPROPYL MYRISTATE (110-27-0)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

STYRALLYL ACETATE (93-92-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

α-Methyl-1,3-benzodioxole-5-propionaldehyde (1205-17-0)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

BERGAMOT OIL (89957-91-5)
Not listed on the United States TSCA (Toxic Substances Control Act) inventory

CARROT SEED OIL (8015-88-1)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

GINGER OIL (8007-08-7)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

PETITGRAIN OIL (8014-17-3)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

SAGE OIL (8022-56-8)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

p-t-Butyl-α-methylhydrocinnamic aldehyde (80-54-6)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

LINALOOL (78-70-6)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

LINALYL ACETATE (115-95-7)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

METHYL DIHYDROAJASMONATE (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

α-Methylbenzyl alcohol (98-85-1)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

SECTION 16: Other information

SDS Major/Minor : None

Issue date : 12/22/2020

Full text of H-phrases:

H226	Flammable liquid and vapor
H227	Combustible liquid
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H320	Causes eye irritation
H330	Fatal if inhaled
H361	Suspected of damaging fertility or the unborn child
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.