



OIL, BLACK PLUM TEA*

Safety Data Sheet

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

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Version: 1.1

SECTION 1: Identification

1.1. Product identifier

Product form : Mixture
Product name : OIL, BLACK PLUM TEA*
CAS-No. : N/A
Product code : 94-4002-75
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)

Skin sensitization, category 1B 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) :

H317 - May cause an allergic skin reaction

Precautionary statements (GHS CA) :

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 - IF ON SKIN: Wash with plenty of water.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
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

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Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
DIIOCTYL 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
1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylcyclopenta-γ-2-benzopyran		(CAS-No.) 1222-05-5	25 - 50	Flam. Liq. 4, H227
ALPHA HEXYL CINNAMALDEHYDE		(CAS-No.) 101-86-0	5 - 10	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	5 - 10	Not classified
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	1 - 5	Acute Tox. 4 (Oral), H302
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

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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
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
GAMMA UNDECALACTONE		(CAS-No.) 104-67-6	1 - 5	Not classified
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
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
Butylated hydroxytoluene		(CAS-No.) 128-37-0	0.1 - 1	Not classified
AMYL ACETATE		(CAS-No.) 628-63-7	0.1 - 1	Flam. Liq. 3, H226
BUTYL ACETATE		(CAS-No.) 123-86-4	0.1 - 1	Flam. Liq. 3, H226 STOT SE 3, H336

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ETHYL 2-METHYLBUTYRATE		(CAS-No.) 7452-79-1	0.1 - 1	Flam. Liq. 3, H226
DELTA DECALACTONE		(CAS-No.) 705-86-2	0.1 - 1	Not classified
5-Methyl-3-butyltetrahydropyran-4-yl acetate		(CAS-No.) 38285-49-3	0.1 - 1	Not classified
2-(p-Menth-1-ene-10-yl)cyclopentanone		(CAS-No.) 95962-14-4	0.1 - 1	Not classified
(E)-1-(2,6,6-Trimethyl-2-cyclohexen-1-yl)-2-buten-1-one		(CAS-No.) 24720-09-0	0.1 - 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 / cephalol / citronellol / citronellol 950 / citronellol, dl- / dihydrogeraniol / dl-citronellol / FEMA No 2309 / FEMA No 2980 / rhodinol / rodinol	(CAS-No.) 106-22-9	0.1 - 1	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1B, H317
Ethyl methylphenylglycidate		(CAS-No.) 77-83-8	0.1 - 1	Skin Sens. 1B, H317
γ-NONALACTONE	1,4-nonanolide / 1,4-nonanolactone / 2(3H)-furanone, dihydro-5-pentyl- / 4-hydroxynonanoic acid lactone / 4-hydroxynonanoic acid, gamma-lactone / 4-nonanolide / 4-pentylbutanolide / aldehyde C-18 / coconut aldehyde / dihydro-5-pentyl-2(3H)-furanone / FEMA number 2781 / gamma-amylobutyrolactone / gamma-amylobutyrolactone / gamma-n-amylobutyrolactone / gamma-nonanoic lactone / gamma-nonanolide / gamma-normal-amylobutyrolactone / gamma-pentyl-gamma-butyrolactone / nonan-1,4-olide / nonan-4-olide / nonane-1,4-olide / nonanoic acid, 4-hydroxy-gamma-lactone / prunolide	(CAS-No.) 104-61-0	0.1 - 1	Not classified
p-Mentha-1,4-diene		(CAS-No.) 99-85-4	0.1 - 1	Flam. Liq. 3, H226 Asp. Tox. 1, H304
GERANYL ACETATE	2,6-dimethyl-2,6-octadien-8-yl ethanoate, trans- / 2,6-dimethyl-2,6-octadiene-8-yl acetate, trans / 2,6-octadien-1-ol, 3,7-dimethyl-, acetate, (2E)- / 2,6-octadien-1-ol, 3,7-dimethyl-, acetate, (E)- / 2,6-octadien-1-ol, 3,7-dimethyl-, acetate, trans- / 3,7-dimethyl-2,6-octadien-1-ol, acetate, trans- / 3,7-dimethyl-2,6-octadien-1-yl acetate, trans / 3,7-dimethyl-2,6-octadienyl acetate, trans- / 3,7-dimethyl-2-trans, 6-octadienyl acetate / 3,7-dimethylocta-2,6-dien-1-yl-acetate, trans / 3,7-dimethyl-trans-2,6-octadien-1-yl-acetate, mixture of isomers / acetic acid, geraniol ester, trans / bay pine (oyster) oil, trans / beta-geranyl acetate / FEMA number 2509 / geraniol acetate, trans / geranyl acetate / geranyl acetate, trans- / geranyl ethanoate, trans / trans-, geranyl ethanoate / trans-2,6-dimethyl-2,6-octadien-8-yl ethanoate / trans-3,7-dimethyl-2,6-octadien-1-ol, acetate / trans-3,7-dimethyl-2,6-octadien-1-yl acetate / trans-3,7-dimethyl-2,6-octadienyl acetate / trans-3,7-dimethylocta-2,6-dien-1-yl-acetate	(CAS-No.) 105-87-3	0.1 - 1	Skin Irrit. 2, H315 Skin Sens. 1B, H317
ETHYL BUTYRATE		(CAS-No.) 105-54-4	< 0.1	Flam. Liq. 3, H226
CIS-3-HEXENOL		(CAS-No.) 928-96-1	< 0.1	Flam. Liq. 3, H226 Eye Irrit. 2A, H319
1-(2,6,6-Trimethylcyclohexa-1,3-dienyl)-2-buten-1-one		(CAS-No.) 23696-85-7	< 0.1	Skin Irrit. 2, H315 Skin Sens. 1A, H317

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NEROL	(Z)-3,7-dimethylocta-2,6-dien-1-ol / (Z)-geraniol / 2,6-octadien-1-ol, 3,7-dimethyl-, (Z)- / 2-cis-3,7-dimethyl-2,6-octadien-1-ol / 3,7-dimethyl-2,6-octadien-1-ol, cis- / beta-nerol / cis-3,7-dimethyl-2,6-octadien-1-ol / cis-geraniol / geraniol, (Z)- / geraniol, cis- / nerol / neryl alcohol	(CAS-No.) 106-25-2	< 0.1	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1B, H317
ACETOPHENONE		(CAS-No.) 98-86-2	< 0.1	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Eye Irrit. 2A, H319

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

SECTION 4: First-aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
- First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
- First-aid measures after eye contact : Rinse eyes with water as a precaution.
- First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell.

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

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

4.3. Immediate medical attention and special treatment, if necessary

- Other medical advice or treatment : Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

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

5.2. Unsuitable extinguishing media

No additional information available

5.3. Specific hazards arising from the hazardous product

No additional information available

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

7.2. Conditions for safe storage, including any incompatibilities

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

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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

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

AMYL ACETATE (628-63-7)

USA - ACGIH - Occupational Exposure Limits

Local name	Pentyl acetate, all isomers
ACGIH TWA (ppm)	50 ppm

USA - OSHA - Occupational Exposure Limits

Local name	n-Amyl acetate
OSHA PEL (TWA) (mg/m ³)	525 mg/m ³
OSHA PEL (TWA) (ppm)	100 ppm

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
Color	: Mixture contains one or more component(s) which have the following colour(s): White Colourless to light amber Colourless to light yellow Colourless to yellow Colourless Light yellow

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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: Fruity odour Aromatic odour Mild odour Strong odour Characteristic odour Floral 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	: 102 °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	: 0.953 (0.943 - 0.963)
Solubility	: Insoluble.
Log Pow	: No data available
Explosion limits	: No data available

9.2. Other information

Refractive index	: 1.484 (1.474 - 1.494)
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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	: None under recommended storage and handling conditions (see section 7).
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

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
ACETOPHENONE (98-86-2)	
LD50 oral	500 mg/kg body weight
ATE CA (oral)	500 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))
ALDEHYDE C-18 (104-61-0)	
LD50 oral rat	> 5000 mg/kg (Rat, Oral)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit, Dermal)
IONONE BETA (14901-07-6)	
LD50 oral rat	4590 mg/kg (Rat, Oral)
ATE CA (oral)	4590 mg/kg body weight

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CITRONELLOL (106-22-9)	
LD50 oral rat	3450 mg/kg (Rat, Inconclusive, insufficient data, Oral)
LD50 oral	3450 mg/kg body weight
LD50 dermal rabbit	2650 mg/kg (Rabbit, Inconclusive, insufficient data, Dermal)
LD50 dermal	2650 mg/kg body weight
ATE CA (oral)	3450 mg/kg body weight
ATE CA (Dermal)	2650 mg/kg body weight
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
HEXYL CINNAMIC ALDEHYDE ALPHA (101-86-0)	
LD50 oral	3100 mg/kg body weight
ATE CA (oral)	3100 mg/kg body weight
DAMASCENONE (23696-85-7)	
LD50 dermal	2900 mg/kg body weight
ATE CA (Dermal)	2900 mg/kg body weight
NEROL 80 (106-25-2)	
LD50 oral rat	4500 mg/kg (Rat, Oral)
LD50 oral	4500 mg/kg body weight
LD50 dermal rabbit	> 5000 mg/kg (Rabbit, Dermal)
ATE CA (oral)	4500 mg/kg body weight
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)
HEDIONE (24851-98-7)	
LD50 oral rat	> 5000 mg/kg (Rat, Oral)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit, Dermal)
DECALACTONE GAMMA (706-14-9)	
LD50 oral rat	5000 mg/kg (Rat, Oral)
ATE CA (oral)	5000 mg/kg body weight
TERPINENE GAMMA (99-85-4)	
LD50 oral	3850 mg/kg body weight
ATE CA (oral)	3850 mg/kg body weight
GERANYL ACETATE PRIME (105-87-3)	
LD50 oral rat	6300 mg/kg (Rat, Oral)
ATE CA (oral)	6300 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

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified

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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 : May cause an allergic skin reaction.

SECTION 12: Ecological information

12.1. Toxicity

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

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

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

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)

ALDEHYDE C-18 (104-61-0)

Log Pow : 2.5

IONONE BETA (14901-07-6)

LC50 fish 1 : 5.1 mg/l (96 h, *Pimephales promelas*)

Log Pow : 4.1

CITRONELLOL (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

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)

NEROL 80 (106-25-2)

LC50 fish 1 : 20.3 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, *Danio rerio*, Semi-static system, Fresh water, Experimental value, GLP)

EC50 Daphnia 1 : 32.4 mg/l (OECD 202: *Daphnia* sp. Acute Immobilisation Test, 48 h, *Daphnia magna*, Static system, Fresh water, Experimental value, GLP)

ErC50 (algae) : 9.54 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, *Pseudokirchneriella subcapitata*, Static system, Fresh water, Experimental value, GLP)

Log Pow : 3.47 (Experimental value)

Log Koc : 1.9738 (log Koc, SRC PCKOCWIN v2.0, QSAR)

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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)
Log Pow	4.38 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 37 °C)

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

GERANYL ACETATE PRIME (105-87-3)	
LC50 fish 1	68.12 mg/l (DIN 38412: German standard methods for the examination of water, waste water and sludge, 96 h, Leuciscus idus, Static system, Fresh water, Read-across)
EC50 Daphnia 1	14.1 mg/l (EU Method C.2, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
EC50 72h algae [mg/l] 1	3.72 mg/l (OECD 201: Alga, Growth Inhibition Test, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, GLP)
BCF other aquatic organisms 1	1500 (Estimated value)
Log Pow	4.04 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method)
Log Koc	3.06 (log Koc, SRC PCKOCWIN v2.0, Calculated value)

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)

12.2. Persistence and degradability

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

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

ALDEHYDE C-18 (104-61-0)	
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

CITRONELLOL (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

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

NEROL 80 (106-25-2)	
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

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.

GERANYL ACETATE PRIME (105-87-3)	
Persistence and degradability	Readily biodegradable in water.
ThOD	2.6 g O ₂ /g substance

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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

12.3. Bioaccumulative potential

OXYPHENYLON (5471-51-2)	
Bioaccumulative potential	No bioaccumulation data available.

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)

ALDEHYDE C-18 (104-61-0)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
Log Pow	2.5

IONONE BETA (14901-07-6)	
Log Pow	4.1

CITRONELLOL (106-22-9)	
Log Pow	3.41 - 3.91

LINALYL ACETATE SPECIAL (115-95-7)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
Log Pow	3.93 (Experimental value)

NEROL 80 (106-25-2)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
Log Pow	3.47 (Experimental value)
Log Koc	1.9738 (log Koc, SRC PCKOCWIN v2.0, QSAR)

ORANGE TERPENES (68647-72-3)	
Bioaccumulative potential	Potential for bioaccumulation (4 ≥ Log Kow ≤ 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)

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

DECALACTONE GAMMA (706-14-9)	
Bioaccumulative potential	No bioaccumulation data available.

GERANYL ACETATE PRIME (105-87-3)	
Bioaccumulative potential	Potential for bioaccumulation (4 ≥ Log Kow ≤ 5).
BCF other aquatic organisms 1	1500 (Estimated value)
Log Pow	4.04 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method)
Log Koc	3.06 (log Koc, SRC PCKOCWIN v2.0, Calculated value)

LINALOOL 90 (78-70-6)	
Bioaccumulative potential	Bioaccumable.
Log Pow	2.84 - 3.145

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)

ALDEHYDE C-18 (104-61-0)	
Log Pow	2.5

IONONE BETA (14901-07-6)	
Log Pow	4.1

CITRONELLOL (106-22-9)	
Log Pow	3.41 - 3.91

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LINALYL ACETATE SPECIAL (115-95-7)	
Ecology - soil	Adsorbs into the soil.
Log Pow	3.93 (Experimental value)
NEROL 80 (106-25-2)	
Ecology - soil	Highly mobile in soil.
Log Koc	1.9738 (log Koc, SRC PCKOCWIN v2.0, QSAR)
Log Pow	3.47 (Experimental 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)
HEDIONE (24851-98-7)	
Log Pow	3 (Estimated value)
GERANYL ACETATE PRIME (105-87-3)	
Ecology - soil	Low potential for mobility in soil.
Log Koc	3.06 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Log Pow	4.04 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method)
LINALOOL 90 (78-70-6)	
Log Pow	2.84 - 3.145

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

BHT (128-37-0)	
Listed on the Canadian DSL (Domestic Substances List)	
OXYPHENYLON (5471-51-2)	
Listed on the Canadian DSL (Domestic Substances List)	
ACETOPHENONE (98-86-2)	
Listed on the Canadian DSL (Domestic Substances List)	
DIIOCTYL ADIPATE (DOA) (103-23-1)	
Listed on the Canadian DSL (Domestic Substances List)	
UNDECALACTONE GAMMA (104-67-6)	
Listed on the Canadian DSL (Domestic Substances List)	

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ALDEHYDE C-16 (77-83-8)
Listed on the Canadian DSL (Domestic Substances List)
ALDEHYDE C-18 (104-61-0)
Listed on the Canadian DSL (Domestic Substances List)
IONONE BETA (14901-07-6)
Listed on the Canadian DSL (Domestic Substances List)
CITRONELLOL (106-22-9)
Listed on the Canadian DSL (Domestic Substances List)
DAMASCONE ALPHA (24720-09-0)
Listed on the Canadian DSL (Domestic Substances List)
HEXYL CINNAMIC ALDEHYDE ALPHA (101-86-0)
Listed on the Canadian DSL (Domestic Substances List)
HEXENOL (CIS-3) (LEAF ALCOHOL) (928-96-1)
Listed on the Canadian DSL (Domestic Substances List)
DAMASCENONE (23696-85-7)
Listed on the Canadian DSL (Domestic Substances List)
DECALACTONE DELTA (705-86-2)
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)
JESSEMAL (38285-49-3)
Listed on the Canadian DSL (Domestic Substances List)
LINALYL ACETATE SPECIAL (115-95-7)
Listed on the Canadian DSL (Domestic Substances List)
BUTYL ACETATE (123-86-4)
Listed on the Canadian DSL (Domestic Substances List)
NEROL 80 (106-25-2)
Listed on the Canadian DSL (Domestic Substances List)
ORANGE TERPENES (68647-72-3)
Listed on the Canadian DSL (Domestic Substances List)
HEDIONE (24851-98-7)
Listed on the Canadian DSL (Domestic Substances List)
AMYL ACETATE (628-63-7)
Listed on the Canadian DSL (Domestic Substances List)
NECTARYL (95962-14-4)
Listed on the Canadian DSL (Domestic Substances List)
DECALACTONE GAMMA (706-14-9)
Listed on the Canadian DSL (Domestic Substances List)
TERPINENE GAMMA (99-85-4)
Listed on the Canadian DSL (Domestic Substances List)
GERANYL ACETATE PRIME (105-87-3)
Listed on the Canadian DSL (Domestic Substances List)
LINALOOL 90 (78-70-6)
Listed on the Canadian DSL (Domestic Substances List)
GALAXOLIDE PURE (1222-05-5)
Listed on the Canadian DSL (Domestic Substances List)

15.2. International regulations

BHT (128-37-0)
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

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ACETOPHENONE (98-86-2)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
DIOCTYL ADIPATE (DOA) (103-23-1)
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
ALDEHYDE C-18 (104-61-0)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
IONONE BETA (14901-07-6)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
CITRONELLOL (106-22-9)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
DAMASCONE ALPHA (24720-09-0)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
HEXYL CINNAMIC ALDEHYDE ALPHA (101-86-0)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
HEXENOL (CIS-3) (LEAF ALCOHOL) (928-96-1)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
DAMASCENONE (23696-85-7)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
DECALACTONE DELTA (705-86-2)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
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
JESSEMAL (38285-49-3)
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
BUTYL ACETATE (123-86-4)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
NEROL 80 (106-25-2)
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
HEDIONE (24851-98-7)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
AMYL ACETATE (628-63-7)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
NECTARYL (95962-14-4)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
DECALACTONE GAMMA (706-14-9)
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
GERANYL ACETATE PRIME (105-87-3)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
LINALOOL 90 (78-70-6)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

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GALAXOLIDE PURE (1222-05-5)

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

SECTION 16: Other information

SDS Major/Minor : None
Issue date : 07/16/2019
Revision date : 05/22/2020
Supersedes : 07/16/2019

Full text of H-phrases:

H226	Flammable liquid and vapour
H227	Combustible liquid
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H320	Causes eye irritation
H336	May cause drowsiness or dizziness

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.