

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 07/15/2024 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Mixture
Product name	: OIL, LAVENDER DE PROVENCE 40/42 NDV*
Product code	: 11-0000-11
1.2. Recommended use and restrict	ions on use
1.3. Supplier	
The Lebermuth Company 4004 Technology Drive South Bend, IN 46628 - 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(s) identificat	
2.1. Classification of the substance	or mixture
GHS US classification	
Flammable liquids Category 4	Combustible liquid
Skin corrosion/irritation Category 2	Causes skin irritation
Serious eye damage/eye irritation Category	
Skin sensitization, Category 1	May cause an allergic skin reaction
Specific target organ toxicity (single exposu	re) Category 2 May cause damage to organs
Specific target organ toxicity (repeated expo	osure) Causes damage to organs through prolonged or repeated exposure
Category 1	
2.2. GHS Label elements, including GHS US labeling	precautionary statements
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Hazard pictograms (GHS US)	
	\vee \vee \vee
	GHS05 GHS07 GHS08
Signal word (GHS US)	GHS05 GHS07 GHS08 : Danger
0 ()	
0 ()	 Danger Combustible liquid Causes skin irritation
0 ()	 Danger Combustible liquid Causes skin irritation May cause an allergic skin reaction
0 ()	 Danger Combustible liquid Causes skin irritation May cause an allergic skin reaction Causes serious eye damage
0 ()	 Danger Combustible liquid Causes skin irritation May cause an allergic skin reaction Causes serious eye damage May cause damage to organs
Hazard statements (GHS US)	 Danger Combustible liquid Causes skin irritation May cause an allergic skin reaction Causes serious eye damage May cause damage to organs Causes damage to organs through prolonged or repeated exposure
Hazard statements (GHS US)	 Danger Combustible liquid Causes skin irritation May cause an allergic skin reaction Causes serious eye damage May cause damage to organs Causes damage to organs through prolonged or repeated exposure Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No
Hazard statements (GHS US)	 Danger Combustible liquid Causes skin irritation May cause an allergic skin reaction Causes serious eye damage May cause damage to organs Causes damage to organs through prolonged or repeated exposure Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Hazard statements (GHS US)	 Danger Combustible liquid Causes skin irritation May cause an allergic skin reaction Causes serious eye damage May cause damage to organs Causes damage to organs through prolonged or repeated exposure Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No
Hazard statements (GHS US)	 Danger Combustible liquid Causes skin irritation May cause an allergic skin reaction Causes serious eye damage May cause damage to organs Causes damage to organs through prolonged or repeated exposure Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash hands, forearms and face thoroughly after handling.
Hazard statements (GHS US)	 Danger Combustible liquid Causes skin irritation May cause an allergic skin reaction Causes serious eye damage May cause damage to organs Causes damage to organs through prolonged or repeated exposure Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash hands, forearms and face thoroughly after handling. Do not eat, drink or smoke when using this product.
Hazard statements (GHS US)	 Danger Combustible liquid Causes skin irritation May cause an allergic skin reaction Causes serious eye damage May cause damage to organs Causes damage to organs through prolonged or repeated exposure Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash hands, forearms and face thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace.
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Hazard statements (GHS US)	 Danger Combustible liquid Causes skin irritation May cause an allergic skin reaction Causes serious eye damage May cause damage to organs Causes damage to organs through prolonged or repeated exposure Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash hands, forearms and face thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. If on skin: Wash with plenty of water.
Hazard statements (GHS US)	 Danger Combustible liquid Causes skin irritation May cause an allergic skin reaction Causes serious eye damage May cause damage to organs Causes damage to organs through prolonged or repeated exposure Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash hands, forearms and face thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. If on skin: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Signal word (GHS US) Hazard statements (GHS US) Precautionary statements (GHS US)	 Danger Combustible liquid Causes skin irritation May cause an allergic skin reaction Causes serious eye damage May cause damage to organs Causes damage to organs through prolonged or repeated exposure Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash hands, forearms and face thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. If on skin: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Call a poison center or doctor.
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Hazard statements (GHS US)	 Danger Combustible liquid Causes skin irritation May cause an allergic skin reaction Causes serious eye damage May cause damage to organs Causes damage to organs through prolonged or repeated exposure Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash hands, forearms and face thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. If on skin: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Call a poison center or doctor. Immediately call a poison center or doctor. Get medical advice/attention if you feel unwell.
Hazard statements (GHS US)	 Danger Combustible liquid Causes skin irritation May cause an allergic skin reaction Causes serious eye damage May cause damage to organs Causes damage to organs through prolonged or repeated exposure Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash hands, forearms and face thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. If on skin: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Call a poison center or doctor. Immediately call a poison center or doctor.

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	If skin irritation occurs: Get med If skin irritation or rash occurs: G Take off contaminated clothing a Wash contaminated clothing bei In case of fire: Use media other Store in a well-ventilated place. Store locked up. Dispose of contents/container to with local, regional, national and	Set medical advice/a and wash it before r fore reuse. than water to exting Keep cool.	attention. euse. guish. cial waste collection point, in accordance
2.3. Other hazards which do not re	esult in classification		
o additional information available			
.4. Unknown acute toxicity (GHS	US)		
lot applicable			
SECTION 3: Composition/Inform	nation on ingredients		
3.1. Substances Not applicable			
.2. Mixtures			
Name	Product identifier	%	GHS US classification
LINALOOL	(CAS-No.) 78-70-6	25 – 50	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1B, H317
LINALYL ACETATE	(CAS-No.) 115-95-7	25 – 50	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2B, H320 Skin Sens. 1B, H317
CAMPHOR	(CAS-No.) 76-22-2	1 – 5	Flam. Sol. 2, H228 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 2, H371
EUCALYPTOL	(CAS-No.) 470-82-6	1 – 5	Flam. Liq. 3, H226 Eye Irrit. 2B, H320 Skin Sens. 1B, H317
4-TERPINEOL	(CAS-No.) 562-74-3	1 – 5	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Inhalation:vapour), H331 Skin Irrit. 2, H315 Eye Irrit. 2B, H320 STOT SE 3, H336
BETA-CARYOPHYLLENE	(CAS-No.) 87-44-5	1 – 5	Skin Sens. 1B, H317 Asp. Tox. 1, H304
BORNEOL	(CAS-No.) 507-70-0	1 – 5	Flam. Sol. 1, H228 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 1, H372
ALPHA-TERPINEOL	(CAS-No.) 98-55-5	1 – 5	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319
GERANIOL	(CAS-No.) 106-24-1	0.1 – 1	Skin Irrit. 2, H315 Eye Dam. 1, H318 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 general	: IF exposed or concerned: Get medical advice/attention.
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. Call a physician immediately.
First-aid measures after ingestion	: Call a poison center/doctor/physician if you feel unwell.
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4.2. Most important symptoms and effects (acute and delayed)			
Symptoms/effects after inhalation :	Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.		
Symptoms/effects after skin contact :	Irritation. May cause an allergic skin reaction.		
Symptoms/effects after eye contact :	Serious damage to eyes.		
Symptoms/effects after ingestion :	None under normal conditions.		
4.3. Immediate medical attention and spec	ial treatment if necessary		
Treat symptomatically.			
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SECTION 5: Fire-fighting measures	en en el la		
5.1. Suitable (and unsuitable) extinguishin	•		
	Water spray. Dry powder. Foam. Carbon dioxide.		
Unsuitable extinguishing media :	Do not use a heavy water stream.		
5.2. Specific hazards arising from the cher			
Fire hazard :	Combustible liquid.		
Explosion hazard :	No direct explosion hazard.		
Reactivity	The product is non-reactive under normal conditions of use, storage and transport.		
5.3. Special protective equipment and pred	cautions for fire-fighters		
Firefighting instructions :	Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.		
Protection during firefighting :	Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.		
SECTION 6: Accidental release measu	ires		
6.1. Personal precautions, protective equi	pment and emergency procedures		
General measures :	Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material-damage.		
6.1.1. For non-emergency personnel			
	Wear recommended personal protective equipment.		
	Ventilate spillage area. No open flames, no sparks, and no smoking. Do not breathe		
	dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes.		
6.1.2. For emergency responders			
	Do not attempt to take action without suitable protective equipment. For further information		
	refer to section 8: "Exposure controls/personal protection".		
Emergency procedures :	Evacuate unnecessary personnel. Stop leak if safe to do so.		
6.2. Environmental precautions			
Avoid release to the environment.			
6.3. Methods and material for containment	t and cleaning up		
	Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak, if possible without risk.		
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.		
6.4. Reference to other sections			
For further information refer to section 13.			
SECTION 7: Handling and storage			
7.1. Precautions for safe handling			
	Not expected to present a significant hazard under anticipated conditions of normal use.		
Precautions for safe handling :	Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protective equipment. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes.		
Hygiene measures :	Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.		
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7.2. Conditions for safe storage, including any incompatibilities		
Technical measures	: Keep in a cool, well-ventilated place away from heat.	
Storage conditions	: Store in a well-ventilated place. Keep cool. Store locked up.	
Packaging materials	: Store always product in container of same material as original container.	

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

OIL, LAVENDER DE PROVENCE 40/42 NDV*	
No additional information available	
CAMPHOR (76-22-2)	
No additional information available	
4-TERPINEOL (562-74-3)	
No additional information available	
ALPHA-TERPINEOL (98-55-5)	
No additional information available	
BORNEOL (507-70-0)	
No additional information available	
EUCALYPTOL (470-82-6)	
No additional information available	
LINALYL ACETATE (115-95-7)	
No additional information available	
LINALOOL (78-70-6)	
No additional information available	
GERANIOL (106-24-1)	
No additional information available	
BETA-CARYOPHYLLENE (87-44-5)	
No additional information available	

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

Personal protective equipment:

Wear recommended 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



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SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and chemical properties		
Physical state	: Liquid	
Color	: COLORLESS TO YELLOW	
Odor	: CHARACTERISTIC, MATCHING RETAINER SAMPLE	
Odor threshold	: No data available	
рН	: No data available	
Melting point	: Not applicable	
Freezing point	: No data available	
Boiling point	: No data available	
Flash point	: 76 °C	
Relative evaporation rate (butyl acetate=1)	: No data available	
Flammability	: Not applicable.	
Vapor pressure	: No data available	
Relative vapor density at 20°C	: No data available	
Relative density	: 0.8923 (0.8823 – 0.9023)	
Solubility	: Insoluble.	
Partition coefficient n-octanol/water (Log Pow)	: No data available	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Viscosity, kinematic	: No data available	
Viscosity, dynamic	: No data available	
Explosion limits	: No data available	
Explosive properties	: No data available	
Oxidizing properties	: No data available	
9.2. Other information		
Refractive index	: 1.45959 (1.44959 – 1.46959)	
SECTION 10: Stability and reactivity		

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

No additional information available

10.6. 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 toxicologic	al effects	
Acute toxicity (oral)	: Not classified	
Acute toxicity (dermal)	: Not classified	
Acute toxicity (inhalation)	: Not classified	
CAMPHOR (76-22-2)		
ATE US (oral)	1500 mg/kg body weight	
ATE US (gases)	4500 ppmV/4h	
ATE US (vapors)	11 mg/l/4h	

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CAMPHOR (76-22-2)	
ATE US (dust, mist)	1.5 mg/l/4h
4-TERPINEOL (562-74-3)	
ATE US (oral)	1300 mg/kg body weight
ATE US (dermal)	2500 mg/kg body weight
ATE US (gases)	700 ppmV/4h
ATE US (vapors)	3 mg/l/4h
ATE US (dust, mist)	0.5 mg/l/4h
ALPHA-TERPINEOL (98-55-5)	
LD50 oral rat	4300 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 2900 - 5700
LD50 dermal rat	> 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
ATE US (oral)	4300 mg/kg body weight
BORNEOL (507-70-0)	
LD50 dermal rat	> 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 Inhalation - Rat	0.5 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)
EUCALYPTOL (470-82-6)	
LD50 oral rat	4500 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal rat	> 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 15 day(s))
ATE US (oral)	2480 mg/kg body weight
LINALOOL (78-70-6)	
ATE US (oral)	2790 mg/kg body weight
GERANIOL (106-24-1)	
ATE US (oral)	3600 mg/kg body weight
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye damage.
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	: May cause damage to organs.
CAMPHOR (76-22-2)	
STOT-single exposure	May cause damage to organs.
4-TERPINEOL (562-74-3)	
STOT-single exposure	May cause drowsiness or dizziness.
STOT-repeated exposure	: Causes damage to organs through prolonged or repeated exposure.
ALPHA-TERPINEOL (98-55-5)	
· · ·	 Causes damage to organs through prolonged or repeated exposure. ≥ 314 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90- Day Oral Toxicity Study in Rodents)
ALPHA-TERPINEOL (98-55-5)	≥ 314 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-
ALPHA-TERPINEOL (98-55-5) NOAEL (oral,rat,90 days)	≥ 314 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-
ALPHA-TERPINEOL (98-55-5) NOAEL (oral,rat,90 days) BORNEOL (507-70-0)	 ≥ 314 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) 3.2 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day

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BORNEOL (507-70-0)	
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.
EUCALYPTOL (470-82-6)	
NOAEL (oral,rat,90 days)	600 mg/kg body weight Animal: rat, Animal sex: female, Guideline: other:, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents), Guideline: EPA OPPTS 870.3150 (90-Day Oral Toxicity in Non-rodents)
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Symptoms/effects after inhalation	: Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.
Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Serious damage to eyes.
Symptoms/effects after ingestion	: None under normal conditions.

SECTIO	N 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.

ALPHA-TERPINEOL (98-55-5)		
LC50 - Fish [1]	70 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)	
EC50 - Crustacea [1]	73 mg/l Test organisms (species): Daphnia magna	
BORNEOL (507-70-0)		
LC50 - Fish [1]	33.25 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)	
EC50 - Crustacea [1]	4.23 mg/l Test organisms (species): Daphnia magna	
EUCALYPTOL (470-82-6)		
LC50 - Fish [1]	57 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Semi-static system, Fresh water, Experimental value, Nominal concentration)	
EC50 - Crustacea [1]	> 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)	
ErC50 algae	> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Nominal concentration)	

12.2. Persistence and degradability

EUCALYPTOL (470-82-6)	
Persistence and degradability	Readily biodegradable in water.

12.3. Bioaccumulative potential

EUCALYPTOL (470-82-6)	
BCF - Other aquatic organisms [1]	112 I/kg (Literature study, Fresh weight)
Partition coefficient n-octanol/water (Log Pow)	3.4 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

12.4. Mobility in soil

EUCALYPTOL (470-82-6)	
Surface tension	61.5 mN/m (20 °C, 1 g/l, EU Method A.5: Surface tension)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.33 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value)
Ecology - soil	Low potential for adsorption in soil.

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12.5. Other adverse effects

No additional information available

 bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable. IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31H21 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquid with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 50 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T2 - 1.5 178.274(d)(2) Normal	SECTION 13: Disposal consideration	IS
Waste treatment methods: Dispose of contents/container in accordance with licensed collector's sorting instructions.Sewage disposal recommendations: Disposal must be done according to official regulations.Product/Packaging disposal recommendations: Disposal must be done according to official regulations.Additional information: Do nore-use empty containers.SECTION 14: Transport information: UN1266 Perfumery products (Regulated for Bulk only), Comb Liq, IIIIn accordance with DOT: UN1266Transport document description (DOT): UN1266Proper Shipping Name (DOT): UN1266Proper Shipping Name (DOT): UN1266Packing group (DOT): Comb Liq - C	13.1. Disposal methods	
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Product/Packaging disposal recommendations : Disposal must be done according to official regulations. Additional information : Do not re-use empty containers. SECTION 14: Transport information : UN1266 Perfumery products (Regulated for Bulk only), Comb Liq, III UN-No. (DOT) : UN1266 Perfumery products (Regulated for Bulk only), Comb Liq, III Proper Shipping Name (DOT) : UN1266 Perfumery products (Regulated for Bulk only) Class (DOT) : Comb Liq - Combustible liquid Packaging Youp (DOT) : III - Minor Danger DOT Packaging Bulk (49 CFR 173.xxx) : 242 DOT Special Provisions (49 CFR 172.102) : B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), and below 93 C (200 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable. If the material has a flash point of less athan 32 C (100 F), and below 93 C (200 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), and below 93 C (200 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), and below 93 C (200 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), and below 93 C (200 F), then the pulk packaging requirements of 173.242 of this subchapter are applicable. I	Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Additional information : Do not re-use empty containers. SECTION 14: Transport information Department of Transportation (DOT) In accordance with DOT Transport document description (DOT) : UN1266 Perfumery products (Regulated for Bulk only), Comb Liq, III UN-No.(DOT) : UN1266 Proper Shipping Name (DOT) : Perfumery products (Regulated for Bulk only) Class (DOT) : Om Liq - Combustible liquid Packing group (DOT) : III - Minor Danger DOT Packaging Non Bulk (49 CFR 173.xxx) : 203 DOT Packaging Bulk (49 CFR 173.xxx) : 203 DOT Special Provisions (49 CFR 172.102) : B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), and belion 93 C (200 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), and belion and Requirement. Only liquid with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 5 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 C (1.2 C), T1 - The maximum degree of filling must not exceed the degree of filling determine	Sewage disposal recommendations	: Disposal must be done according to official regulations.
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DOT Quantity Limitations Passenger aircraft/rail : 60 L (49 CFR 173.27) DOT Quantity Limitations Cargo aircraft only (49 : 220 L CFR 175.75)	DOT Special Provisions (49 CFR 172.102)	subchapter are applicable. IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T2 - 1.5 178.274(d)(2) Normal
(49 CFR 173.27) DOT Quantity Limitations Cargo aircraft only (49 : 220 L CFR 175.75)	DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
CFR 175.75)		: 60 L
		: 220 L
DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.	DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
Emergency Response Guide (ERG) Number : 127	Emergency Response Guide (ERG) Number	: 127
Other information : No supplementary information available.	Other information	: No supplementary information available.

Transportation of Dangerous Goods

Not regulated

Transport by sea

Not regulated

Air transport

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 15: Regulatory information

15.1. US Federal regulations

No additional information available

15.2. International regulations CANADA

CAMPHOR (76-22-2)
Listed on the Canadian DSL (Domestic Substances List)
4-TERPINEOL (562-74-3)
Listed on the Canadian DSL (Domestic Substances List)
ALPHA-TERPINEOL (98-55-5)
Listed on the Canadian DSL (Domestic Substances List)
BORNEOL (507-70-0)
Listed on the Canadian DSL (Domestic Substances List)
EUCALYPTOL (470-82-6)
Listed on the Canadian DSL (Domestic Substances List)
LINALYL ACETATE (115-95-7)
Listed on the Canadian DSL (Domestic Substances List)
LINALOOL (78-70-6)
Listed on the Canadian DSL (Domestic Substances List)
BETA-CARYOPHYLLENE (87-44-5)
Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

CAMPHOR (76-22-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Listed on INSQ (Mexican National Inventory of Chemical Substances)

4-TERPINEOL (562-74-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Listed on INSQ (Mexican National Inventory of Chemical Substances)

ALPHA-TERPINEOL (98-55-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Listed on INSQ (Mexican National Inventory of Chemical Substances)

BORNEOL (507-70-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Listed on INSQ (Mexican National Inventory of Chemical Substances)

EUCALYPTOL (470-82-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Listed on INSQ (Mexican National Inventory of Chemical Substances)

LINALYL ACETATE (115-95-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Listed on INSQ (Mexican National Inventory of Chemical Substances)

Safety Data Sheet

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LINALOOL (78-70-	-6)
	d States TSCA (Toxic Substances Control Act) inventory - Status: Active exican National Inventory of Chemical Substances)
BETA-CARYOPHY	/LLENE (87-44-5)
Listed on the United	d States TSCA (Toxic Substances Control Act) inventory - Status: Active
15.3. US State regu	lations
A WARNING:	This product can expose you to estragole, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.
	This product can expose you to beta-myrcene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Component	State or local regulations
CAMPHOR(76-22-2)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
BORNEOL(507-70-0)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

H226	Flammable liquid and vapor
H227	Combustible liquid
H228	Flammable solid
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H320	Causes eye irritation
H331	Toxic if inhaled
H332	Harmful if inhaled
H336	May cause drowsiness or dizziness
H371	May cause damage to organs
H372	Causes damage to organs through prolonged or repeated exposure

SDS US (GHS HazCom 2012) - Lebermuth

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.