



OIL, SANDALWOOD II*

Safety Data Sheet

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

Issue date: 04/19/2019

Revision date: 05/20/2020

Supersedes: 04/19/2019

Version: 1.1

SECTION 1: Identification

1.1. Product identifier

Product form : Mixture
Product name : OIL, SANDALWOOD II*
CAS-No. : N/A
Product code : 50-8134-02
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)

Acute toxicity (inhalation:vapour) Category 4 H332 Harmful if inhaled
Skin sensitization, Category 1 H317 May cause an allergic skin reaction
Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS CA labeling

Hazard pictograms (GHS CA) :



Signal word (GHS CA) :

Warning

Hazard statements (GHS CA) :

H317 - May cause an allergic skin reaction
H332 - Harmful if inhaled

Precautionary statements (GHS CA) :

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
P271 - Use only outdoors or in a well-ventilated area.
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.
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 - Call a POISON CENTER or doctor if you feel unwell.
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)
BENZYL BENZOATE	benylate / benzoate / benzoic acid, benzyl ester / benzoic acid, phenylmethyl ester / benzyl alcohol, benzoic ester / benzyl benzenecarboxylate / benzyl benzoate / benzyl benzoate USP 600040 / benzyl phenylformate / benzylets / FEMA number 2138	(CAS-No.) 120-51-4	>= 50	Acute Tox. 4 (Oral), H302
DIETHYL PHTHALATE	1,2-benzene dicarboxylic acid diethyl ester / 1,2-benzenedicarboxylic acid, diethyl ester / ANOZOL / BISOFLEX DEP / DEP(=diethyl phthalate) / diethyl 1,2-benzenedicarboxylate / diethyl phthalate / diethyl-o-phthalate / diethyl-ortho-phthalate / di-n-ethyl phthalate / di-normal-ethyl phthalate / DPX-F5384 / ESTOL 1550 / ethyl phthalate / KODAFLEX DEP / NEANTINE / o-benzenedicarboxylic acid diethyl ester / o-phthalic acid diethyl ester / ortho-benzenedicarboxylic acid diethyl ester / ortho-phthalic acid diethyl ester / PALATINOL A / PALATINOL A (R) / phthalic acid diethyl ester / phthalic acid ethyl ester / PHTHALOL / PLACIDOL E / SOLVANOL	(CAS-No.) 84-66-2	10 - 25	Acute Tox. 3 (Inhalation:vapour), H331
CEDARWOOD OIL		(CAS-No.) 68990-83-0	1 - 5	Asp. Tox. 1, H304
2-Ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol		(CAS-No.) 28219-61-6	1 - 5	Eye Irrit. 2A, H319
5-(2,2,3-Trimethyl-3-cyclopentenyl)-3-methylpentan-2-ol		(CAS-No.) 65113-99-7	1 - 5	Eye Irrit. 2A, H319
3-(5,5,6-Trimethylbicyclo[2.2.1]hept-2-yl)cyclohexan-1-ol		(CAS-No.) 3407-42-9	2.328 - 2.619	Skin Irrit. 2, H315 Eye Irrit. 2A, H319
SANDALWOOD OIL		(CAS-No.) 8006-87-9	1 - 5	Skin Sens. 1, H317
STYRALLYL ACETATE		(CAS-No.) 93-92-5	0.1 - 1	Not classified
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	0.291 - 0.582	Not classified
1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylcyclopenta-γ-2-benzopyran		(CAS-No.) 1222-05-5	0.1 - 1	Flam. Liq. 4, H227

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. Call a poison center/doctor/physician if you feel unwell.
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.
First-aid measures general	: 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 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 : Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

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

DIETHYL PHTHALATE (84-66-2)

USA - ACGIH - Occupational Exposure Limits

Local name	Diethyl phthalate
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ACGIH TWA (mg/m ³)	5 mg/m ³
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Remark (ACGIH)	URT irr
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8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

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Respiratory protection:

Wear respiratory protection.

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
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: Mild odour Pleasant odour Aromatic odour Odourless
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	: 137 °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	: 1.085 (1.075 - 1.095)
Solubility	: Insoluble.
Log Pow	: No data available
Explosion limits	: No data available

9.2. Other information

Refractive index	: 1.54 (1.530 - 1.550)
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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)	: Harmful if inhaled.

ATE CA (vapours)	13.544 mg/l/4h
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BENZYL BENZOATE (120-51-4)	
LD50 oral rat	> 2000 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male/female, Experimental value, Oral, 14 day(s))
LD50 oral	1500 mg/kg body weight
LD50 dermal rabbit	> 2 ml/kg (Modification of Draize 1959 method, 4 h, Rabbit, Experimental value, Dermal)
LD50 dermal	4000 mg/kg body weight
ATE CA (oral)	1500 mg/kg body weight
ATE CA (Dermal)	4000 mg/kg body weight

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DIETHYL PHTHALATE (DEP) (84-66-2)	
LD50 oral rat	8600 mg/kg (Rat, Oral)
LD50 dermal rabbit	> 7940 mg/kg (Rabbit, Dermal)
LC50 inhalation rat (mg/l)	> 5 mg/l (4 h, Rat, Inhalation)
ATE CA (oral)	8600 mg/kg body weight
ATE CA (vapours)	3 mg/l/4h

ISO BORNYL CYCLOHEXANOL (3407-42-9)	
LC50 inhalation rat (Dust/Mist - mg/l/4h)	4.5 mg/l/4h
ATE CA (dust,mist)	4.5 mg/l/4h

ISOPROPYL MYRISTATE (110-27-0)	
LD50 oral rat	> 10000 mg/kg (Rat, Oral)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit, Dermal)

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

STOT-single exposure : Not classified

: 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

BENZYL BENZOATE (120-51-4)	
LC50 fish 1	2.32 mg/l (EU Method C.1, 96 h, Danio rerio, Semi-static system, Fresh water, Experimental value, GLP)
EC50 Daphnia 1	3.09 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
EC50 72h algae [mg/l] 1	0.475 mg/l (OECD 201: Alga, Growth Inhibition Test, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Growth rate)
BCF fish 1	2.286 (BCFBAF v3.00, Pisces, QSAR)
Log Pow	3.97 (Experimental value, 25 °C)
Log Koc	3.8 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value)

DIETHYL PHTHALATE (DEP) (84-66-2)	
LC50 fish 1	17 ppm (96 h, Pimephales promelas, Flow-through system)
EC50 Daphnia 1	52 mg/l (48 h, Daphnia magna)
EC50 72h algae [mg/l] 1	23 mg/l (Scenedesmus subspicatus, Growth)
BCF fish 1	15 - 16 (Mugil cephalus)
BCF fish 2	117.5 (504 h, Lepomis macrochirus)
BCF other aquatic organisms 1	1100 ppb (Ostreidae, Fresh weight)
BCF other aquatic organisms 2	340 - 450 ppb (Lamellibranchiata, Fresh weight)
Log Pow	1.4 - 2.82

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ISOPROPYL MYRISTATE (110-27-0)	
LC50 fish 1	8400 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Brachydanio rerio)
EC50 Daphnia 1	100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna)
Log Pow	7.17 (Estimated value)

12.2. Persistence and degradability

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

DIETHYL PHTHALATE (DEP) (84-66-2)	
Persistence and degradability	Biodegradable in the soil. 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
ThOD	2.9 g O ₂ /g substance

12.3. Bioaccumulative potential

BENZYL BENZOATE (120-51-4)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
BCF fish 1	2.286 (BCFBAF v3.00, Pisces, QSAR)
Log Pow	3.97 (Experimental value, 25 °C)
Log Koc	3.8 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value)

DIETHYL PHTHALATE (DEP) (84-66-2)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
BCF fish 1	15 - 16 (Mugil cephalus)
BCF fish 2	117.5 (504 h, Lepomis macrochirus)
BCF other aquatic organisms 1	1100 ppb (Ostreidae, Fresh weight)
BCF other aquatic organisms 2	340 - 450 ppb (Lamellibranchiata, Fresh weight)
Log Pow	1.4 - 2.82

ISOPROPYL MYRISTATE (110-27-0)	
Log Pow	7.17 (Estimated value)

12.4. Mobility in soil

BENZYL BENZOATE (120-51-4)	
Surface tension	0.027 N/m (210 °C)
Ecology - soil	Low potential for mobility in soil.
Log Koc	3.8 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value)
Log Pow	3.97 (Experimental value, 25 °C)

DIETHYL PHTHALATE (DEP) (84-66-2)	
Surface tension	0.0375 N/m (20 °C)
Log Pow	1.4 - 2.82

ISOPROPYL MYRISTATE (110-27-0)	
Log Pow	7.17 (Estimated value)

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

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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

BACDANOL (28219-61-6)

Listed on the Canadian DSL (Domestic Substances List)

BENZYL BENZOATE (120-51-4)

Listed on the Canadian DSL (Domestic Substances List)

DIETHYL PHTHALATE (DEP) (84-66-2)

Listed on the Canadian DSL (Domestic Substances List)

GALAXOLIDE PURE (1222-05-5)

Listed on the Canadian DSL (Domestic Substances List)

GARDENOL (STYRALLYL ACETATE) (93-92-5)

Listed on the Canadian DSL (Domestic Substances List)

SANDALORE (65113-99-7)

Listed on the Canadian DSL (Domestic Substances List)

CEDARWOOD TEXAS WHITE OIL (68990-83-0)

Listed on the Canadian DSL (Domestic Substances List)

SANDALWOOD INDIAN (8006-87-9)

Listed on the Canadian DSL (Domestic Substances List)

ISO BORNYL CYCLOHEXANOL (3407-42-9)

Listed on the Canadian DSL (Domestic Substances List)

ISOPROPYL MYRISTATE (110-27-0)

Listed on the Canadian DSL (Domestic Substances List)

15.2. International regulations

BACDANOL (28219-61-6)

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

BENZYL BENZOATE (120-51-4)

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

DIETHYL PHTHALATE (DEP) (84-66-2)

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

GALAXOLIDE PURE (1222-05-5)

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

GARDENOL (STYRALLYL ACETATE) (93-92-5)

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

SANDALORE (65113-99-7)

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

CEDARWOOD TEXAS WHITE OIL (68990-83-0)

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

SANDALWOOD INDIAN (8006-87-9)

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

ISO BORNYL CYCLOHEXANOL (3407-42-9)

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

SECTION 16: Other information

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SDS Major/Minor : None
Issue date : 04/19/2019
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Supersedes : 04/19/2019

Full text of H-phrases:

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
H319	Causes serious eye irritation
H331	Toxic if inhaled
H332	Harmful if inhaled

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.