

SAFETY DATA SHEET



DAVANA OIL LMR CSM

Version 1.0 Revision Date: 2025/06/26 SDS Number: 300000726094 Date of last issue: -
Date of first issue: 2025/06/26

Section 1: Identification

Product name : DAVANA OIL LMR CSM
Sales Number : 00042154

Manufacturer or supplier's details

Company : IFF LMR Naturals
Parc Industriel Les Bois de Grasse
Address : 18-20 avenue Joseph Honoré Isnard
Grasse 06 06130
Telephone : +33492424344
Emergency telephone number : +33 3 8073 7878

Recommended use of the chemical and restrictions on use

Recommended use : Fragrance Compound

Section 2: Hazard identification

GHS Classification

Flammable liquids : Category 4
Skin sensitisation : Category 1
Hazardous to the aquatic environment - chronic hazard : Category 3

GHS label elements

Hazard pictograms :



Signal word : Warning

Hazard statements : H227 Combustible liquid.
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.

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Precautionary statements

:

Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P261 Avoid breathing mist or vapours.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of water.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P403 Store in a well-ventilated place.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification

None known.

Section 3: Composition/information on ingredients

Substance / Mixture : Substance

Chemical nature : Fragrance for consumer product

Components

Chemical name	CAS-No.	Concentration (% w/w)
geranyl acetate	105-87-3	>= 0,25 -< 1
linalool	78-70-6	>= 0,25 -< 1
p-menth-1-en-4-ol	562-74-3	>= 0,25 -< 1
caryophyllene	87-44-5	>= 0,1 -< 1
[3R-(3 α ,3a β ,7 β ,8a α)]-octahydro-3,8,8-trimethyl-6-methylene-1H-3a,7-methanoazulene	546-28-1	>= 0,025 -< 0,1

Section 4: First-aid measures

If inhaled : Remove from exposure site to fresh air and keep at rest. Obtain medical advice.

In case of skin contact : Remove contaminated clothes. Wash thoroughly with water

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(and soap). Contact physician if symptoms persist.

In case of eye contact : Flush immediately with water for at least 15 minutes. Contact physician if symptoms persist.

If swallowed : Rinse mouth with water and obtain medical advice.

Most important symptoms and effects, both acute and delayed : May cause an allergic skin reaction.

Section 5: Fire-fighting measures

Suitable extinguishing media : Carbondioxide, dry chemical, foam.

Unsuitable extinguishing media : Do not use a direct waterjet on burning material.

Specific hazards during fire-fighting : Water may be ineffective.

Specific extinguishing methods : Standard procedure for chemical fires.

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures : Avoid inhalation and contact with skin and eyes. A self-contained breathing apparatus is recommended in case of a major spill.

Environmental precautions : Keep away from drains, surface- and groundwater and soil.

Methods and materials for containment and cleaning up : Clean up spillage promptly. Remove ignition sources. Provide adequate ventilation. Avoid excessive inhalation of vapours. Gross spillages should be contained by use of sand or inert powder and disposed of according to the local regulations.

Section 7: Handling and storage

Advice on protection against fire and explosion : Keep away from ignition sources and naked flame.

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Advice on safe handling : Avoid excessive inhalation of concentrated vapors. Follow good manufacturing practices for housekeeping and personal hygiene. Wash any exposed skin immediately after any chemical contact, before breaks and meals, and at the end of each work period. Contaminated clothing and shoes should be thoroughly cleaned before re-use.

If appropriate, procedures used during the handling of this material should also be used when cleaning equipment or removing residual chemicals from tanks or other containers, especially when steam or hot water is used, as this may increase vapor concentrations in the workplace air. Where chemicals are openly handled, access should be restricted to properly trained employees. Keep all heated processes at the lowest necessary temperature in order to minimize emissions of volatile chemicals into the air.

Hygiene measures : To the extent deemed appropriate, implement pre-placement and regularly scheduled ascertainment of symptoms and spirometry testing of lung function for workers who are regularly exposed to this material.
To the extent deemed appropriate, use an experienced air sampling expert to identify and measure volatile chemicals that could be present in the workplace air to determine potential exposures and to ensure the continuing effectiveness of engineering controls and operational practices to minimize exposure.

Conditions for safe storage : Store in a cool, dry, ventilated area away from heat sources. Keep containers upright and tightly closed when not in use.

Section 8: Exposure controls/personal protection

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
linalool	78-70-6	WES-STEL	10 ppm 56 mg/m ³	NZ OEL
Further information: Skin sensitiser, Skin absorption				
		WES-TWA	5 ppm 28 mg/m ³	NZ OEL
Further information: Skin sensitiser, Skin absorption				

Engineering measures : Where appropriate, use closed systems to transfer and process this material.
If appropriate, isolate mixing rooms and other areas where this material is used or openly handled. Maintain these areas under negative air pressure relative to the rest of the plant.

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Personal protective equipment

Respiratory protection : Use local exhaust ventilation around open tanks and other open sources of potential exposures in order to avoid excessive inhalation, including places where this material is openly weighed or measured. In addition, use general dilution ventilation of the work area to eliminate or reduce possible worker exposures.
No respiratory protection is required during normal operations in a workplace where engineering controls such as adequate ventilation, etc. are sufficient.

If engineering controls and safe work practices are not sufficient, an approved, properly fitted respirator with organic vapor cartridges or canisters and particulate filters should be used:

- a) while engineering controls and appropriate safe work practices and/or procedures are being implemented; or
- b) during short term maintenance procedures when engineering controls are not in normal operation or are not sufficient; or
- c) if normal operational workplace vapor concentration in the air is increased due to heat ;
- d) during emergencies; or
- e) if engineering controls and operational practices are not sufficient to reduce airborne concentrations below an established occupational exposure limit.

Hand protection

Remarks : Avoid skin contact. Use chemically resistant gloves.

Eye protection : Use tight-fitting goggles, face shield or safety glasses with side shields if eye contact might occur.

Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

Protective measures : In December 2003, the National Institute for Occupational Safety and Health ("NIOSH") published an Alert on preventing lung disease in workers who use or make flavorings [NIOSH Publication Number 2004-110].
In August 2004, the United States Flavor and Extract Manufacturers Association (FEMA) issued a report entitled "Respiratory Safety in the Flavor Manufacturing Workplace". Both of these reports provide recommendations for reducing employee exposure and for medical surveillance in the workplace. The recommendations in these reports are generally applicable to the use of any chemical in the workplace and

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you are strongly urged to review both of these reports. The report published by FEMA also contains a list of "high priority" chemicals. If any of these chemicals are present in this product at a concentration $\geq 1.0\%$ due to an intentional addition by IFF, the chemical(s) will be identified in this safety data sheet.

Section 9: Physical and chemical properties

Appearance	:	liquid
Colour	:	reddish brown
Odour	:	conforms to standard
Odour Threshold	:	not determined
Melting point	:	not determined
Boiling point	:	not determined
Flash point	:	63,00 °C
		Method: closed cup
Evaporation rate	:	not determined
Upper explosion limit / Upper flammability limit	:	not determined
Lower explosion limit / Lower flammability limit	:	not determined
Vapour pressure	:	0,01 hPa (20 °C) Calculated
Relative density	:	0,9440 - 0,9760
Density	:	not determined
Water solubility	:	not determined
Solubility in other solvents	:	not determined
Partition coefficient: n-octanol/water	:	not determined
Auto-ignition temperature	:	not determined
Decomposition temperature	:	not determined
pH	:	not determined
Viscosity, dynamic	:	not determined
Viscosity, kinematic	:	not determined
Oxidizing properties	:	not determined
Molecular weight	:	not determined
Particle size	:	not determined

Section 10: Stability and reactivity

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Reactivity	:	No hazards to be specially mentioned.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	Presents no significant reactivity hazard, by itself or in contact with water.
Conditions to avoid	:	Direct sources of heat.
Incompatible materials	:	Avoid contact with strong acids, alkali or oxidizing agents.
Hazardous decomposition products	:	Carbon monoxide and unidentified organic compounds may be formed during combustion.

Section 11: Toxicological information

Acute toxicity

Not classified based on available information.

Components:

geranyl acetate:

Acute oral toxicity : LD50 (Rat, male and female): 6.330 mg/kg
Method: No information available.
GLP: no
Remarks: REACH data

linalool:

Acute oral toxicity : LD50 (Rat, male and female): 2.790 mg/kg
Method: OECD Test Guideline 401
Test substance: (undiluted)
GLP: no
Remarks: REACH data

Acute inhalation toxicity : see user defined free text:

Acute dermal toxicity : LD50 (Rabbit): 5.610 mg/kg
Method: OECD Test Guideline 402
Test substance: (undiluted)
GLP: no
Remarks: REACH data

p-menth-1-en-4-ol:

Acute oral toxicity : LD50 (Rat): 1.300 mg/kg
GLP: no
Remarks: REACH data

Acute inhalation toxicity : LC50 (Rat): > 1,11 mg/l
Test atmosphere: dust/mist
Method: OECD Test Guideline 436

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GLP: yes
Remarks: REACH data

Acute dermal toxicity : LD50 (Rabbit): 2.500 - 5.000 mg/kg
Method: OECD Test Guideline 402
GLP: no
Remarks: REACH data

caryophyllene:

Acute oral toxicity : LD50 (Mouse, male): > 5.000 mg/kg
Remarks: REACH data

Skin corrosion/irritation

Not classified based on available information.

Components:

geranyl acetate:

Species : Rabbit
Exposure time : 4 h
Assessment : Causes skin irritation.
Method : OECD Test Guideline 404
Result : Skin irritation
GLP : no
Remarks : REACH data

linalool:

Species : Rabbit
Exposure time : 4 h
Assessment : Causes skin irritation.
Method : OECD Test Guideline 404
Result : Skin irritation
GLP : yes
Test substance : (undiluted)
Remarks : REACH data

p-menth-1-en-4-ol:

Species : reconstructed human epidermis (RhE)
Exposure time : 1 h
Assessment : Causes skin irritation.
Method : OECD Test Guideline 439
Result : Skin irritation
GLP : yes
Test substance : (undiluted)
Remarks : REACH data

caryophyllene:

Species : human skin
Exposure time : 1 h

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Assessment : No skin irritation
Method : OECD Test Guideline 439
Result : No skin irritation
GLP : yes
Test substance : (undiluted)
Remarks : REACH data

Serious eye damage/eye irritation

Not classified based on available information.

Components:

geranyl acetate:

Species : Rabbit
Result : No eye irritation
Exposure time : 1 h
Assessment : No eye irritation
Method : OECD Test Guideline 405
GLP : yes
Remarks : REACH data

linalool:

Species : Rabbit
Result : Eye irritation
Assessment : Causes serious eye irritation.
Method : OECD Test Guideline 405
GLP : no
Remarks : REACH data

p-menth-1-en-4-ol:

Species : Bovine cornea
Result : Eye irritation
Assessment : Causes serious eye irritation.
Method : OECD Test Guideline 437
GLP : yes
Test substance : (undiluted)
Remarks : REACH data

caryophyllene:

Species : Rabbit
Result : No eye irritation
Assessment : No eye irritation
Method : OECD Test Guideline 405
GLP : yes
Test substance : (undiluted)
Remarks : REACH data

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Respiratory or skin sensitisation**Skin sensitisation**

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Components:**geranyl acetate:**

Test Type : Local lymph node assay (LLNA)
Species : Mouse
Method : OECD Test Guideline 429
Result : positive
GLP : yes
Remarks : REACH data

linalool:

Test Type : Local lymph node assay (LLNA)
Species : Mouse
Assessment : The product is a skin sensitiser, sub-category 1B.
Method : OECD Test Guideline 429
Result : The product is a skin sensitiser, sub-category 1B.
GLP : yes
Remarks : REACH data

p-menth-1-en-4-ol:

Test Type : Direct Peptide Reactivity Assay (DPRA)
Assessment : The product is a skin sensitiser, sub-category 1B.
Method : OECD Test Guideline 442C
Result : Skin sensitization
GLP : yes
Remarks : REACH data

caryophyllene:

Test Type : Freund's complete adjuvant test
Species : Guinea pig
Assessment : The product is a skin sensitiser, sub-category 1B.
Method : OECD Test Guideline 406
Result : Skin sensitization
Remarks : REACH data

Chronic toxicity**Germ cell mutagenicity**

Not classified based on available information.

Components:**geranyl acetate:**

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Genotoxicity in vitro : Test Type: reverse mutation assay
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: Mutagenicity (Salmonella typhimurium - reverse mutation assay)
Result: negative
GLP: no
Remarks: REACH data

Genotoxicity in vivo : Test Type: In vivo micronucleus test
Species: Mouse (male)
Strain: NMRI and DBA
Application Route: Oral
Method: OECD Test Guideline 474
Result: negative
GLP: yes
Remarks: REACH data

linalool:

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test
Test system: mouse lymphoma cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: yes
Remarks: REACH data

Test Type: Chromosome aberration test in vitro
Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
GLP: yes
Remarks: REACH data

Test Type: Microbial mutagenesis assay (Ames test)
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes
Remarks: REACH data

Genotoxicity in vivo : Test Type: In vivo micronucleus test
Species: Mouse (male and female)
Application Route: Oral
Method: OECD Test Guideline 474
Result: negative
GLP: yes
Remarks: REACH data

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p-menth-1-en-4-ol:

Genotoxicity in vitro

: Test Type: in vitro mammalian cell micronucleus
Test system: Human lymphocytes
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 487
Result: negative
GLP: yes
Remarks: REACH data

Test Type: Microbial mutagenesis assay (Ames test)
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes
Remarks: REACH data

caryophyllene:

Genotoxicity in vitro

: Test Type: in vitro mammalian cell micronucleus
Test system: Human lymphocytes
Method: OECD Test Guideline 487
Result: negative
Remarks: REACH data

Test Type: Microbial mutagenesis assay (Ames test)
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
Remarks: REACH data

Test Type: In vitro mammalian cell gene mutation test
Test system: mouse lymphoma cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
Remarks: REACH data

Genotoxicity in vivo

: Test Type: sister chromatid exchange assay
Species: Mouse (male)
Application Route: Oral
Result: negative
Remarks: REACH data

Test Type: In vivo micronucleus test
Species: Mouse (male)
Application Route: Oral
Method: OECD Test Guideline 474
Result: negative
Remarks: REACH data

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Carcinogenicity

Not classified based on available information.

Components:

geranyl acetate:

Species : Rat, male and female
Application Route : Oral
NOAEL : 2.000 mg/kg bw/day
Method : carcinogenicity study
Result : negative
GLP : no
Remarks : REACH data

Reproductive toxicity

Not classified based on available information.

Components:

geranyl acetate:

Effects on fertility : Test Type: reproductive and developmental toxicity study
Species: Rat, male and female
Strain: wistar
Application Route: Dermal
General Toxicity - Parent: NOAEL: 300 mg/kg body weight
Method: OECD Test Guideline 421
Result: Not classified
GLP: yes
Remarks: REACH data

Effects on foetal development : Test Type: reproductive and developmental toxicity study
Species: Rat, male and female
Strain: wistar
Application Route: Dermal
General Toxicity Maternal: NOAEL: 300 mg/kg body weight
Method: OECD Test Guideline 421
Result: Not classified
GLP: yes
Remarks: REACH data

linalool:

Effects on fertility : Test Type: reproductive and developmental toxicity study
Species: Rat, male
Application Route: Oral
General Toxicity - Parent: NOAEL: 750 mg/kg body weight
General Toxicity F1: NOAEL: 200 mg/kg body weight
Method: OECD Test Guideline 421
GLP: yes

Test Type: reproductive and developmental toxicity study
Species: Rat, female
Application Route: Oral

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General Toxicity - Parent: NOAEL: 200 mg/kg body weight
General Toxicity F1: NOAEL: 200 mg/kg body weight
Method: OECD Test Guideline 421
GLP: yes

Effects on foetal development : Test Type: Pre-natal
Species: Rat, female
Application Route: Oral
Duration of Single Treatment: 11 d
Frequency of Treatment: 1 daily
General Toxicity Maternal: NOAEL: 500 mg/kg body weight
Developmental Toxicity: NOAEL: 1.000 mg/kg body weight
GLP: yes
Remarks: REACH data

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

geranyl acetate:

Species : Rat, male and female
: 2000 mg/kg
Application Route : Oral
Exposure time : 90-day
Method : No information available.
GLP : no
Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Remarks : REACH data

linalool:

Species : Rat, male
NOAEL : $\geq 532,1$ mg/kg
Application Route : Ingestion
Exposure time : 96 d
Method : OECD Test Guideline 408
Test substance : (undiluted)
GLP : yes
Remarks : REACH data

Species : Rat, female
NOAEL : $\geq 497,9$ mg/kg
Application Route : Ingestion
Exposure time : 95 d
Method : OECD Test Guideline 408
Test substance : (undiluted)

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GLP : yes
Remarks : REACH data

Species : Rat, male and female
NOAEL : 250 mg/kg
Application Route : Dermal
Exposure time : 91 d
Method : OECD Test Guideline 411
Test substance : (undiluted)
GLP : yes
Remarks : REACH data

Aspiration toxicity

Not classified based on available information.

Components:

caryophyllene:

May be fatal if swallowed and enters airways.

Further information

Product:

Remarks : There is no data available for this product. The health hazards are assessed based on the ingredients in this preparation and their concentrations.

Section 12: Ecological information

Ecotoxicity

Components:

geranyl acetate:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 68,12 mg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 14,1 mg/l
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: Regulation (EC) No. 440/2008, Annex, C.2
GLP: yes

Toxicity to algae/aquatic plants : ErC50 (Desmodesmus subspicatus (green algae)): 3,72 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201

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GLP: yes
Remarks: REACH data

NOEC (Desmodesmus subspicatus (green algae)): 0,585 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes
Remarks: REACH data

linalool:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 27,8 mg/l
Exposure time: 96 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 203
GLP: yes
Remarks: REACH data

NOEC (Oncorhynchus mykiss (rainbow trout)): 3,5 mg/l
Exposure time: 96 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 203
GLP: yes
Remarks: REACH data

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 59 mg/l
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes
Remarks: REACH data

NOEC (Daphnia magna (Water flea)): 25 mg/l
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes
Remarks: REACH data

Toxicity to algae/aquatic plants : EbC50 (Desmodesmus subspicatus (green algae)): 88,3 mg/l
Exposure time: 96 h
Test Type: static test
Analytical monitoring: no
Method: DIN 38412
GLP: no
Remarks: REACH data

ErC50 (Desmodesmus subspicatus (green algae)): 156,7 mg/l

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Exposure time: 96 h
Test Type: static test
Analytical monitoring: no
Method: DIN 38412
GLP: no
Remarks: REACH data

Toxicity to microorganisms : EC50 (activated sludge): > 100 mg/l
Exposure time: 3 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 209
GLP: yes
Remarks: REACH data

p-menth-1-en-4-ol:

Toxicity to fish : LC50 (Fish): 15,6 mg/l
Exposure time: 96 h
Remarks: Based on data from similar materials
REACH data

Toxicity to daphnia and other aquatic invertebrates : EC50: 26,6 mg/l
Exposure time: 48 h
Remarks: Based on data from similar materials
REACH data

Toxicity to algae/aquatic plants : EC50: 21,4 mg/l
Exposure time: 72 h
Remarks: Based on data from similar materials
REACH data

NOEC: 9,65 mg/l
Exposure time: 72 h
Remarks: Based on data from similar materials
REACH data

Toxicity to microorganisms : EC50 (activated sludge): 237 mg/l
Exposure time: 3 h
Test Type: Respiration inhibition
Remarks: Based on data from similar materials
REACH data

Ecotoxicology Assessment

Acute aquatic toxicity : Toxic to aquatic life.

caryophyllene:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 0,17 mg/l
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes

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Method: OECD Test Guideline 202
GLP: yes
Remarks: REACH data

Toxicity to algae/aquatic plants : EC50 (Raphidocelis subcapitata (freshwater green alga)): > 33 mg/l
End point: Growth inhibition
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes
Remarks: REACH data

NOEC (Raphidocelis subcapitata (freshwater green alga)): >= 33 mg/l
End point: Growth inhibition
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes
Remarks: REACH data

[3R-(3 α ,3 β ,7 β ,8 α)]-octahydro-3,8,8-trimethyl-6-methylene-1H-3a,7-methanoazulene:

M-Factor (Acute aquatic toxicity) : 10

M-Factor (Chronic aquatic toxicity) : 10

Persistence and degradability

Components:

geranyl acetate:

Biodegradability : Concentration: 90 mg/l
Result: Readily biodegradable.
Biodegradation: > 70 %
Exposure time: 28 d
Method: OECD Test Guideline 301
GLP: yes
Remarks: REACH data

linalool:

Biodegradability : aerobic
Inoculum: see user defined free text
Concentration: 2 mg/l
Result: Readily biodegradable.
Biodegradation: 64,2 %
Exposure time: 28 d

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DAVANA OIL LMR CSM

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Method: OECD Test Guideline 301D
GLP: yes
Remarks: REACH data

p-menth-1-en-4-ol:

Biodegradability

: Result: Readily biodegradable.
Biodegradation: 79 %
Exposure time: 28 d
Remarks: Based on data from similar materials
REACH data

Result: Readily biodegradable.
Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.
REACH data

caryophyllene:

Biodegradability

: aerobic
Inoculum: activated sludge, non-adapted
Concentration: 18,7 mg/l
Result: Readily biodegradable.
Biodegradation: 56 %
Exposure time: 28 d
Method: OECD Test Guideline 310
GLP: yes
Remarks: REACH data

Bioaccumulative potential

Components:

geranyl acetate:

Partition coefficient: n-octanol/water

: log Pow: 4,04 (20 °C)
Method: OECD Test Guideline 117
GLP: no
Remarks: REACH data

linalool:

Bioaccumulation

: Remarks: Accumulation in aquatic organisms is unlikely.

p-menth-1-en-4-ol:

Bioaccumulation

: Species: Fish
Bioconcentration factor (BCF): 0,5 - 15
Concentration: 0,2 mg/l
Remarks: Based on data from similar materials
REACH data

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Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological information : Avoid contamination of soil, ground and surface water.

Components:

linalool:

Results of PBT and vPvB assessment : Substance is not persistent, bioaccumulative, and toxic (PBT). Substance is not very persistent and very bioaccumulative (vPvB).

Section 13: Disposal considerations

Disposal methods

Waste from residues : Dispose of according to local regulations. Avoid disposing into drainage systems and into the environment.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

Section 14: Transport information

International Regulations

IATA-DGR

UN/ID No. : Not applicable
Proper shipping name : Not applicable
Class : Not applicable
Subsidiary risk : Not applicable
Packing group : Not applicable
Labels : Not applicable
Packing instruction (cargo aircraft) : Not applicable
Packing instruction (passenger aircraft) : Not applicable

IMDG-Code

UN number : Not applicable
Proper shipping name : Not applicable
Class : Not applicable
Subsidiary risk : Not applicable
Packing group : Not applicable
Labels : Not applicable
EmS Code : Not applicable
Marine pollutant : Not applicable

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Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

Special precautions for user

Not applicable

Section 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

HSNO Approval Number

HSR002574 Food Additives and Fragrance Materials Combustible Group Standard

Tolerable Exposure Limits (TEL)

Not applicable

Environmental Exposure Limits (EEL)

Not applicable

HSW Controls

Certified handler certificate not required.

Tracking hazardous substance not required.

Refer to the Health and Safety at Work (Hazardous Substances) Regulations 2017, for further information.

Section 16: Other information

Revision Date : 2025/06/26

Further information

Other information : The information in this safety data sheet is based on the properties of the material known to us at the time the data sheet was issued. The safety data sheet is intended to provide information for a health and safety assessment of the material and the circumstances under which it is packaged, stored or applied in the workplace. For such a safety assessment we hold no responsibility. This document is not intended for quality assurance purposes.

Date format : dd.mm.yyyy

Full text of other abbreviations

NZ OEL : New Zealand. Workplace Exposure Standards for Atmospheric Contaminants

NZ OEL / WES-TWA : Workplace Exposure Standard - Time Weighted average

NZ OEL / WES-STEL : Workplace Exposure Standard - Short-Term Exposure Limit

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AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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