

SECTION1. Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product code : GIARDINO DELLE ESPERIDI

UFI: J3F0-Y0FD-C00X-4KNT

1.2. Relevant identified uses of the substance or mixture and uses advised against

Essence for the fragrance of the environment.

Sectors of use:

Private households (= general public = consumers)[SU21]

Uses advised against

Do not use for purposes other than those listed

1.3. Details of the supplier of the safety data sheet

Cavoretto Snc di Cavoretto Lorenzo & C.

Via S. Giovanni Bosco 22

10073 Ciriè (TO)

tel. +39.(0).11.920.31.72 (from 08:30 to 12:30 and from 15:30 to 19:30 from Monday to Friday)

mail@cavoretto.net - www.cavoretto.net

Competent person responsible for SDS: mail@cavoretto.net

1.4. Emergency telephone number

Cavoretto Snc di Cavoretto Lorenzo & C.

tel. +39.(0).11.920.31.72 (from 08:30 to 12:30 and from 15:30 to 19:30 from Monday to Friday)

SECTION2. Hazards identification**2.1. Classification of the substance or mixture**

2.1.1 Classification according to Regulation (EC) No 1272/2008:

Pictograms:

GHS07, GHS09

Hazard Class and Category Code(s):

Skin Irrit. 2, Skin Sens. 1B, Eye Irrit. 2, Aquatic Chronic 2

Hazard statement Code(s):

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

H411 - Toxic to aquatic life with long lasting effects.

If brought into contact with eyes, the product causes significant irritations which may last for more than 24 hours, if

brought into contact with skin, it causes significant inflammation with erythema, scabs, or edema

The product, if brought into contact with skin can cause skin sensitization.

The product is dangerous to the environment as it is toxic to aquatic life with long lasting effects

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008:

Pictogram, Signal Word Code(s):
GHS07, GHS09 - Warning



Hazard statement Code(s):
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H411 - Toxic to aquatic life with long lasting effects.

Supplemental Hazard statement Code(s):
not applicable

Precautionary statements:

General

P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

Prevention

P273 - Avoid release to the environment.

Response

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

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

Disposal

P501 - Dispose of contents/container in accordance with local/regional/national/international regulation.

Contains:

Linalool, Linalyl acetate, d-limonene,

[3R-(3 α ,3 α β ,6 β ,7 β ,8 α)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene, 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one, Pin-2(3)-ene,

1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one,

1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one, Dihydropentamethyl indanone

UFI: J3F0-Y0FD-C00X-4KNT

2.3. Other hazards

Based on the available data, no PBT or vPvB substances are present in accordance with Regulation (EC) 1907/2006, annex XIII

No information on other hazards

SECTION3. Composition/information on ingredients

3.1 Substances

Irrilevant

3.2 Mixtures

Refer to paragraph 16 for full text of hazard statements

Note C - Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

Substance	% (w/w)	Classification	ID
Dipropylenglycol monomethyl ether substance for which there are Community workplace exposure limits	>= 19, < 22,%	ATE oral = 5.130,0 mg/kg ATE dermal = 9.510,0 mg/kg	INDEX - CAS 34590-94-8 CE 252-104-2 REACH 01-2119450011-60-XXXX
Linalool	>= 9,1 < 9,9%	Skin Irrit. 2, H315; Skin Sens. 1B, H317; Eye Irrit. 2, H319 ATE oral = 2.790,0 mg/kg ATE dermal = 5.160,0 mg/kg	INDEX ND CAS 78-70-6 CE 201-134-4 REACH 01-2119474016-42-XXXX
tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	>= 8,4 < 9,2%	Eye Irrit. 2, H319	INDEX 603-101-00-3 CAS 63500-71-0 CE 405-040-6 REACH 01-0000015458-64-XXXX
Linalyl acetate	>= 7,9 < 8,7%	Skin Irrit. 2, H315; Skin Sens. 1B, H317; Eye Irrit. 2, H319 ATE oral = 13.934,0 mg/kg ATE dermal > 5.000,0 mg/kg	INDEX ND CAS 115-95-7 CE 204-116-4 REACH 01-2119454789-19-XXXX
d-limonene Note: C	>= 7,7 < 8,5%	Flam. Liq. 3, H226; Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410 ATE oral = 4.400,0 mg/kg ATE dermal > 5.000,0 mg/kg ATE inhal = 5.600,0mg/l/4 h	INDEX 601-029-00-7 CAS 5989-27-5 CE 227-813-5 REACH 01-2119529223-47-XXXX
3-Methoxy-Methyl-1-Butanol	>= 5,0 < 5,8%	Eye Irrit. 2, H319 ATE oral = 4.300,0 mg/kg	INDEX ND CAS 56539-66-3 CE 260-252-4 REACH 01-2119976333-33-XXXX
[3R-(3α,3aβ,6β,7β,8α)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene	>= 4,8 < 5,6%	Skin Sens. 1B, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Acute toxicity M-factor = 1 Chronic toxicity M-factor = 1	INDEX ND CAS 67874-81-1 CE 267-510-5 REACH 01-2120228335-61-XXXX
Oxacyclohexadecen-2-one	>= 2,9 < 3,7%	Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Acute toxicity M-factor = 1 Chronic toxicity M-factor = 1	INDEX 606-092-00-4 CAS 34902-57-3 CE 422-320-3 REACH 01-0000016883-62-XXXX
octahydro tetramethyl acetone	>= 2,3 < 3,1%	Skin Irrit. 2, H315; Skin Sens. 1B, H317; Aquatic Chronic 1, H410 Acute toxicity M-factor = 1 Chronic toxicity M-factor = 1 ATE oral > 5.000,0 mg/kg ATE dermal > 5.000,0 mg/kg	INDEX ND CAS 54464-57-2 CE 259-174-3 REACH 01-2119489989-04-XXXX
2-BUTANOL,2-t-BUTYLCYCLOHEXYL OXY	>= 1,1 < 1,9%	Aquatic Chronic 2, H411 Acute toxicity M-factor = 1 Chronic toxicity M-factor = 1	INDEX 603-154-00-2 CAS 139504-68-0 CE 412-300-2 REACH 01-0000015959-52-XXXX
Pin-2(3)-ene	>= 1,0 < 1,7%	Flam. Liq. 3, H226; Acute Tox. 4, H302; Asp. Tox. 1, H304; Skin Irrit. 2, H315; Skin Sens. 1B, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Acute toxicity M-factor = 1 ATE oral = 2.100,0 mg/kg	INDEX ND CAS 80-56-8 CE 201-291-9 REACH 01-2119519223-49-XXXX

Substance	% (w/w)	Classification	ID
		ATE dermal = 5.005,0 mg/kg	
1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	>= 1,0 < 1,6%	Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Chronic 1, H410 Acute toxicity M-factor = 1 Chronic toxicity M-factor = 1	INDEX ND CAS 68155-67-9 CE 268-979-9 REACH ND
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	>= 1,0 < 1,6%	Skin Irrit. 2, H315; Skin Sens. 1B, H317; Aquatic Chronic 1, H410 Acute toxicity M-factor = 1 Chronic toxicity M-factor = 1 ATE oral > 5.000,0 mg/kg ATE dermal > 5.000,0 mg/kg	INDEX ND CAS 68155-66-8 CE 268-978-3 REACH ND
Dihydropentamethyl indanone	>= 1,0 < 1,5%	Skin Irrit. 2, H315; Skin Sens. 1B, H317; Eye Irrit. 2, H319; Aquatic Chronic 2, H411 Acute toxicity M-factor = 1 Chronic toxicity M-factor = 1 ATE oral = 2.900,0 mg/kg	INDEX ND CAS 33704-61-9 CE 251-649-3 REACH 01-2119977131-40-XXXX
1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one	>= 0,4 < 0,7%	Acute Tox. 4, H302; Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Acute toxicity M-factor = 1 Chronic toxicity M-factor = 1 ATE oral = 920,0 mg/kg ATE dermal = 7.940,0 mg/kg	INDEX ND CAS 1506-02-1 CE 216-133-4 REACH 01-2119539433-40-XXXX
(E)-3-methyl-5-cyclopentadecen-1-one	>= 0,2 < 0,5%	Skin Sens. 1, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Acute toxicity M-factor = 1 Chronic toxicity M-factor = 1	INDEX ND CAS 82356-51-2 CE 429-900-5 REACH 01-000017618-62-XXXX
3-p-Cumenyl-2-methylpropionaldehyde	>= 0,2 < 0,5%	Skin Irrit. 2, H315; Skin Sens. 1B, H317; Aquatic Chronic 3, H412 Acute toxicity M-factor = 1 Chronic toxicity M-factor = 1 ATE oral > 5.000,0 mg/kg ATE dermal > 5.000,0 mg/kg	INDEX ND CAS 103-95-7 CE 203-161-7 REACH 01-2119970582-32-XXXX
Citral	>= 0,2 < 0,5%	Skin Irrit. 2, H315; Skin Sens. 1, H317; Eye Irrit. 2, H319 ATE oral = 4.950,0 mg/kg ATE dermal = 2.250,0 mg/kg	INDEX 605-019-00-3 CAS 5392-40-5 CE 226-394-6 REACH 01-2119462829-23-XXXX
beta-Caryophyllene	>= 0,2 < 0,4%	Asp. Tox. 1, H304; Skin Sens. 1B, H317; Aquatic Chronic 4, H413 Acute toxicity M-factor = 1 Chronic toxicity M-factor = 1	INDEX ND CAS 87-44-5 CE 201-746-1 REACH 01-2120745237-53-XXXX
2,4-dimethyl-3-ciclohexene-1-carboxaldehyde	>= 0,1 < 0,4%	Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Chronic 2, H411 Acute toxicity M-factor = 1 Chronic toxicity M-factor = 1 ATE oral = 3.900,0 mg/kg ATE dermal = 5.000,0 mg/kg	INDEX ND CAS 68039-49-6 CE 268-264-1 REACH 01-2119982384-28-XXXX
2-propenyl 3-cyclohexylpropanoate	>= 0,1 < 0,4%	Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1B, H317; Acute Tox. 4, H332; Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Acute toxicity M-factor = 1 Chronic toxicity M-factor = 1 ATE oral = 297,0 mg/kg ATE dermal = 1.600,0 mg/kg	INDEX ND CAS 2705-87-5 CE 220-292-5 REACH 01-2119976355-27-XXXX
2,6-di-tert-butyl-p-cresol	>= 0,1 < 0,3%	Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Acute toxicity M-factor = 1 Chronic toxicity M-factor = 1	INDEX - CAS 128-37-0 CE 204-881-4 REACH 01-2119565113-46-XXXX
Eucalyptol	>= 0,1 < 0,3%	Flam. Liq. 3, H226; Skin Sens. 1B, H317	INDEX ND CAS 470-82-6 CE 207-431-5 REACH 01-2119967772-24-XXXX
Neryl acetate	>= 0,1 < 0,3%	Skin Sens. 1B, H317	INDEX ND CAS

Substance	% (w/w)	Classification	ID
		ATE oral = 5.000,0 mg/kg	CE 141-12-8 REACH 205-459-2 01-2120748334-54-XXXX
Citronellol	>= 0,1 < 0,3%	Skin Irrit. 2, H315; Skin Sens. 1B, H317; Eye Irrit. 2, H319 ATE oral = 3.450,0 mg/kg ATE dermal = 2.650,0 mg/kg	INDEX ND CAS 106-22-9 CE 203-375-0 REACH 01-2119453995-23-XXXX

SECTION4. First aid measures

4.1. Description of first aid measures

Inhalation:

Air the area. Move immediately the contaminated patient from the area and keep him at rest in a well ventilated area. If you feel unwell seek medical advice.

Direct contact with skin (of the pure product):

Take contaminated clothing Immediately off.

Wash immediately with plenty of running water and possibly with soap, the areas of the body that have, or are only suspected to have, come in contact with the product.

In case of contact with skin, wash immediately with water.

Direct contact with eyes (of the pure product):

Wash immediately and thoroughly with running water, keeping eyelids open for at least 10 minutes, then protect your eyes with a dry sterile gauze. Seek medical advice immediately

Ingestion:

Rinse mouth with water of the subject. Consult a physician.

4.2. Most important symptoms and effects, both acute and delayed

No data available.

4.3. Indication of any immediate medical attention and special treatment needed

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

If medical advice is needed, have product container or label at hand.

SECTION5. Firefighting measures

5.1. Extinguishing media

Advised extinguishing agents:

Water spray, CO2, foam, dry chemical, depending on the materials involved in the fire.

Extinguishing means to avoid:

Water jets. Use water jets only to cool the surfaces of the containers exposed to fire.

5.2. Special hazards arising from the substance or mixture

No data available.

5.3. Advice for firefighters

Use protection for the breathing apparatus

Safety helmet and full protective suit.

The spray water can be used to protect the people involved in the extinction

You may also use selfrespirator, especially when working in confined and poorly ventilated area and if you use halogenated extinguishers (Halon 1211 fluobrene, Solkan 123, NAF, etc...)

Keep containers cool with water spray

SECTION6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel:

Wear gloves and protective clothing

6.1.2 For emergency responders:

Wear gloves and protective clothing.

Eliminate all unguarded flames and possible sources of ignition. No smoking.

Provision of sufficient ventilation.

Evacuate the danger area and, in case, consult an expert.

6.2. Environmental precautions

Contain spill with earth or sand.

If the product has entered a watercourse in sewers or has contaminated soil or vegetation, notify it to the the authorities.

Discharge the remains in compliance with the regulations

6.3. Methods and material for containment and cleaning up

6.3.1 For containment:

Rapidly recover the product, wear a mask and protective clothing

Recover the product for reuse, if possible, or for removal. Possibly absorb it with inert material.

Prevent it from entering the sewer system.

6.3.2 For cleaning up:

After wiping up, wash the area and materials involved

6.3.3 Other information:

None in particular.

6.4. Reference to other sections

Refer to paragraphs 8 and 13 for more information

SECTION7. Handling and storage

7.1. Precautions for safe handling

Avoid contact and inhalation of vapors

At work do not eat or drink.

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

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

See also paragraph 8 below.

7.2. Conditions for safe storage, including any incompatibilities

Keep in original container closed tightly. Do not store in open or unlabeled containers.
Keep containers upright and safe by avoiding the possibility of falls or collisions.
Store in a cool place, away from sources of heat and direct exposure of sunlight.

7.3. Specific end use(s)

Private households (= general public = consumers):
Handle in a well ventilated area.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Related to contained substances:

Dipropyleneglycol monomethyl ether:

GESTIS International Limit Values (<https://limitvalue.ifa.dguv.de/>)

Australia : TLV-TWA= 50 ppm , 308 mg/m³

Austria : TLV-TWA= 50 ppm , 307 mg/m³ - TLV-STEL= 100 ppm , 614 mg/m³

Belgium : TLV-TWA= 50 (1) ppm , 308 (1) mg/m³

Canada - Ontario : TLV-TWA= 100 ppm - TLV-STEL= 150 ppm

Canada - Québec : TLV-TWA= 100 (1) ppm , 606 (1) mg/m³ - TLV-STEL= 150 (1)(2) ppm , 909 (1)(2) mg/m³

Denmark : TLV-TWA= 50 (1) ppm , 309 (1) mg/m³ - TLV-STEL= 100 (1)(2) ppm , 618 (1)(2) mg/m³

European Union : TLV-TWA= 50 ppm , 308 mg/m³

Finland : TLV-TWA= 50 ppm , 310 mg/m³ -

France : TLV-TWA= 50 ppm , 308 mg/m³

Germany (AGS) : TLV-TWA= 50 (1) ppm , 310 (1) mg/m³ - TLV-STEL= 50 (1)(2) ppm , 310 (1)(2) mg/m³

Germany (DFG) : TLV-TWA= 50 (1) ppm , 310 (1) mg/m³ - TLV-STEL= 50 (1)(2) ppm , 310 (1)(2) mg/m³

Hungary : TLV-TWA= 308 mg/m³ - TLV-STEL= 308 mg/m³

Ireland : TLV-TWA= 50 ppm , 308 mg/m³

Israel : TLV-TWA= 100 ppm , 606 mg/m³ - TLV-STEL= 150 ppm , 909 mg/m³

Italy : TLV-TWA= 50 ppm , 308 mg/m³

Latvia : TLV-TWA= 50 ppm , 308 mg/m³ -

New Zealand : TLV-TWA= 100 ppm , 606 mg/m³ - TLV-STEL= 150 ppm , 909 mg/m³

People's Republic of China : TLV-TWA= ppm , 600 mg/m³ - TLV-STEL= ppm , 900 (1) mg/m³

Poland : TLV-TWA= 240 mg/m³ - TLV-STEL= 280 mg/m³

Romania : TLV-TWA= 50 ppm , 308 mg/m³

Singapore : TLV-TWA= 100 ppm , 606 mg/m³ - TLV-STEL= 150 ppm , 909 mg/m³

South Korea : TLV-TWA= 100 ppm , 600 mg/m³ - TLV-STEL= 150 ppm , 900 mg/m³

Spain : TLV-TWA= 50 ppm , 308 mg/m³

Sweden : TLV-TWA= 50 ppm , 300 mg/m³ - TLV-STEL= 75 (1) ppm , 450 (1) mg/m³

Switzerland : TLV-TWA= 50 ppm , 300 mg/m³ - TLV-STEL= 50 ppm , 300 mg/m³

The Netherlands : TLV-TWA= 300 mg/m³

Turkey : TLV-TWA= 50 ppm , 308 mg/m³

USA - NIOSH : TLV-TWA= 100 ppm , 600 mg/m³ - TLV-STEL= 150 (1) ppm , 900 (1) mg/m³

USA - OSHA : TLV-TWA= 100 ppm , 600 mg/m³

United Kingdom : TLV-TWA= 50 ppm , 308 mg/m³

Belgium: (1) Additional indication "D" means that the absorption of the agent through the skin, mucous membranes or eyes is an important part of the total exposure. It can be the result of both direct contact and its presence in the air.

Canada – Québec: (1) Skin (2) 15 minutes average value

Denmark: (1) Skin (2) 15 minutes average value

European Union: Bold-type: Indicative Occupational Exposure Limit Value (IOELV) ~ (for references see bibliography)

France: Bold type: Restrictive statutory limit values Skin

Germany (AGS): (1) Inhalable aerosol and vapour (2) 15 minutes reference period

Germany (DFG): (1) Inhalable fraction and vapour (2) 15 minutes average value

Italy: skin

People's Republic of China: (1) 15 minutes average value

Spain: skin
Sweden: (1) 15 minutes average value
USA – NIOSH: (1) 15 minutes average value

d-limonene:

MAK: 20 110 mg/m ppm skin sensitization (Sh); Peak limitation category: II (2); Risk group for pregnancy: C; (DFG 2005).

Pin-2(3)-ene:

TLV-TWA=111mg/m³, 20ppm (sen, A4)

2,6-di-tert-butyl-p-cresol:

TLV-TWA=2mg/mL (ACGIH), A4, URT irr

- Substance: Dipropyleneglycol monomethyl ether

DNEL

Systemic effects Long term Workers inhalation = 308 (mg/m³)

Systemic effects Long term Workers dermal = 283 (mg/kg bw/day)

Systemic effects Long term Consumers inhalation = 37,2 (mg/m³)

Systemic effects Long term Consumers dermal = 121 (mg/kg bw/day)

Systemic effects Long term Consumers oral = 36 (mg/kg bw/day)

PNEC

Sweet water = 19 (mg/l)

sediment Sweet water = 70,2 (mg/kg/sediment)

Sea water = 1,9 (mg/l)

sediment Sea water = 7,02 (mg/kg/sediment)

intermittent emissions = 190 (mg/l)

STP = 4168 (mg/l)

ground = 4,59 (mg/kg ground)

- Substance: Linalool

DNEL

Systemic effects Long term Workers inhalation = 3,5 (mg/m³)

Systemic effects Long term Workers dermal = 24,58 (mg/kg bw/day)

Systemic effects Long term Consumers inhalation = 4,33 (mg/m³)

Systemic effects Long term Consumers dermal = 1,25 (mg/kg bw/day)

Systemic effects Long term Consumers oral = 2,49 (mg/kg bw/day)

PNEC

Sweet water = 0,2 (mg/l)

sediment Sweet water = 2,22 (mg/kg/sediment)

Sea water = 0,02 (mg/l)

sediment Sea water = 0,22 (mg/kg/sediment)

intermittent emissions = 2 (mg/l)

STP = 10 (mg/l)

ground = 0,327 (mg/kg ground)

- Substance: Linalyl acetate

DNEL

Systemic effects Long term Workers inhalation = 2,75 (mg/m³)

Systemic effects Long term Workers dermal = 2,5 (mg/kg bw/day)

Systemic effects Long term Consumers inhalation = 0,68 (mg/m³)

Systemic effects Long term Consumers dermal = 1,25 (mg/kg bw/day)

Systemic effects Long term Consumers oral = 0,2 (mg/kg bw/day)

PNEC

Sweet water = 0,011 (mg/l)

sediment Sweet water = 0,609 (mg/kg/sediment)

Sea water = 0,001 (mg/l)
sediment Sea water = 0,061 (mg/kg/sediment)
intermittent emissions = 0,11 (mg/l)
STP = 1 (mg/l)
ground = 0,0115 (mg/kg ground)

- Substance: 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one
DNEL

Systemic effects Short term Workers inhalation = 1,76 (mg/m³)
Systemic effects Short term Workers dermal = 1,73 (mg/kg bw/day)
Local effects Short term Workers dermal = 0,1011 (mg/kg bw/day)

PNEC

Sweet water = 0,0028 (mg/l)
sediment Sweet water = 3,73 (mg/kg/sediment)
Sea water = 0,00028 (mg/l)
sediment Sea water = 0,75 (mg/kg/sediment)
ground = 0,705 (mg/kg ground)

- Substance: Dihydropentamethyl indanone

DNEL

Systemic effects Long term Workers inhalation = 1,47 (mg/m³)
Systemic effects Long term Workers dermal = 0,42 (mg/kg bw/day)
Systemic effects Long term Consumers inhalation = 0,44 (mg/m³)
Systemic effects Long term Consumers dermal = 0,25 (mg/kg bw/day)
Systemic effects Long term Consumers oral = 0,25 (mg/kg bw/day)

PNEC

Sweet water = 0,004 (mg/l)
sediment Sweet water = 0,0991 (mg/kg/sediment)
sediment Sea water = 0,00991 (mg/kg/sediment)
STP = 10 (mg/l)
ground = 0,0174 (mg/kg ground)

- Substance: 1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one

DNEL

Systemic effects Long term Workers inhalation = 0,175 (mg/m³)
Systemic effects Long term Workers dermal = 0,61 (mg/kg bw/day)
Systemic effects Long term Consumers inhalation = 0,043 (mg/m³)
Systemic effects Long term Consumers dermal = 0,305 (mg/kg bw/day)
Systemic effects Long term Consumers oral = 0,013 (mg/kg bw/day)
Systemic effects Short term Workers inhalation = 0,525 (mg/m³)
Systemic effects Short term Consumers oral = 1,2 (mg/kg bw/day)

PNEC

Sweet water = 0,0022 (mg/l)
sediment Sweet water = 1,72 (mg/kg/sediment)
Sea water = 0,00022 (mg/l)
sediment Sea water = 0,345 (mg/kg/sediment)
intermittent emissions = 0,0061 (mg/l)
STP = 2,2 (mg/l)
ground = 0,01 (mg/kg ground)

- Substance: Citronellol

DNEL

Systemic effects Long term Workers inhalation = 161,6 (mg/m³)
Systemic effects Long term Workers dermal = 327,4 (mg/kg bw/day)

Systemic effects Long term Consumers inhalation = 47,8 (mg/m³)
 Systemic effects Long term Consumers dermal = 196,4 (mg/kg bw/day)
 Systemic effects Long term Consumers oral = 13,8 (mg/kg bw/day)

PNEC

Sweet water = 0,000002 (mg/l)

sediment Sweet water = 0,0256 (mg/kg/sediment)

Sea water = 0,000002 (mg/l)

sediment Sea water = 0,00256 (mg/kg/sediment)

STP = 580 (mg/l)

ground = 0,00321 (mg/kg ground)

8.2. Exposure controls

Appropriate engineering controls:

Private households (= general public = consumers):

Observe usual safety precautions in the handling of chemicals.

Individual protection measures:

a) Eye / face protection
 Not needed for normal use.

b) Skin protection

i) Hand protection
 Not needed for normal use.

ii) Other
 Wear normal work clothing.

c) Respiratory protection
 Not needed for normal use.

d) Thermal hazards
 No hazard to report

Environmental exposure controls:

Use according to good working practices to avoid pollution into the environment.

SECTION9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical and chemical properties	Value	Determination method
Physical state	Liquid	
Colour	Colorless	
Odour	Characteristic	
Odour threshold	Undefined	
Melting point/freezing point	Undefined	

Physical and chemical properties	Value	Determination method
Boiling point or initial boiling point and boiling range	Undefined	
Flammability	Undefined	
Lower and upper explosion limit	Undefined	
Flash point	Undefined	
Auto-ignition temperature	Undefined	
Decomposition temperature	Undefined	
pH	Undefined	
Kinematic viscosity	Undefined	
Solubility	Undefined	
Water solubility	Undefined	
Partition coefficient n-octanol/water (log value)	Undefined	
Vapour pressure	Undefined	
Density and/or relative density	Undefined	
Relative vapour density	Undefined	
Particle characteristics	Irrelevant	

9.2. Other information

9.2.1 Information with regard to physical hazard classes

Irrilevant

9.2.2 Other safety characteristics

Irrilevant

SECTION 10. Stability and reactivity

10.1. Reactivity

No reactivity hazards

10.2. Chemical stability

No hazardous reaction when handled and stored according to provisions.

10.3. Possibility of hazardous reactions

There are no hazardous reactions

10.4. Conditions to avoid

Nothing to report

10.5. Incompatible materials

Nothing to report.

10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION 11. Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

ATE(mix) oral = 68.665,6 mg/kg

ATE(mix) dermal = 615.384,6 mg/kg

ATE(mix) inhal = 4.230,8 mg/l/4 h

(a) acute toxicity: based on available data, the classification criteria are not met.

(b) skin corrosion/irritation: If brought into contact with the skin, the product causes significant inflammation with erythema, scabs, or edema.

d-limonene: Irritating

3-Methoxy-Methyl-1-Butanol: Irritating

2,4-dimethyl-3-ciclohexene-1-carboxaldehyde: Irritating.

(c) serious eye damage/irritation: If brought into contact with eyes, the product, causes significant irritations which may last for more than 24 hours.

d-limonene: Mildly irritating

3-Methoxy-Methyl-1-Butanol: Irritating

2,4-dimethyl-3-ciclohexene-1-carboxaldehyde: Irritating.

(d) respiratory or skin sensitisation: The product, if brought into contact with skin can cause skin sensitization.

(e) germ cell mutagenicity: based on available data, the classification criteria are not met.

(f) carcinogenicity: based on available data, the classification criteria are not met.

(g) reproductive toxicity: based on available data, the classification criteria are not met.

(h) specific target organ toxicity (STOT) single exposure: based on available data, the classification criteria are not met.

(i) specific target organ toxicity (STOT) repeated exposure: Dipropylenglycol monomethyl ether: .

d-limonene: Repeated or prolonged contact may cause skin sensitisation

(j) aspiration hazard: based on available data, the classification criteria are not met.

Related to contained substances:

Dipropylenglycol monomethyl ether:

LD50 (rat) Oral (mg/kg body weight) = 5130

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 9510

Linalool:

LD50 (rat) Oral (mg/kg body weight) = 2790

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 5160

Linalyl acetate:

LD50 (rat) Oral (mg/kg body weight) = 13934

LD50 Dermal (rat or rabbit) (mg/kg body weight) > 5000

d-limonene:

LD50 (rat) Oral (mg/kg body weight) = 4400

LD50 Dermal (rat or rabbit) (mg/kg body weight) > 5000

CL50 Inhalation (rat) vapour/dust/mist/fume (mg/l/4h) or gas (ppmV/4h) = 5600

3-Methoxy-Methyl-1-Butanol:

LD50 (rat) Oral (mg/kg body weight) = 4300

octahydro tetramethyl acetone:

LD50 (rat) Oral (mg/kg body weight) > 5000

LD50 Dermal (rat or rabbit) (mg/kg body weight) > 5000

Pin-2(3)-ene:

LD50 (rat) Oral (mg/kg body weight) = 2100

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 5005

1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one:

LD50 (rat) Oral (mg/kg body weight) > 5000

LD50 Dermal (rat or rabbit) (mg/kg body weight) > 5000

Dihydropentamethyl indanone:

LD50 (rat) Oral (mg/kg body weight) = 2900

1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one:

LD50 (rat) Oral (mg/kg body weight) = 920

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 7940

3-p-Cumenyl-2-methylpropionaldehyde:

LD50 (rat) Oral (mg/kg body weight) > 5000

LD50 Dermal (rat or rabbit) (mg/kg body weight) > 5000

Citral:

LD50 (rat) Oral (mg/kg body weight) = 4950

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 2250

2,4-dimethyl-3-cyclohexene-1-carboxaldehyde:

LD50 (rat) Oral (mg/kg body weight) = 3900

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 5000

2-propenyl 3-cyclohexylpropanoate:

LD50 (rat) Oral (mg/kg body weight) = 297

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 1600

Neryl acetate:

LD50 (rat) Oral (mg/kg body weight) = 5000

Citronellol:

LD50 (rat) Oral (mg/kg body weight) = 3450

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 2650

11.2. Information on other hazards

No data available.

SECTION 12. Ecological information

12.1. Toxicity

Related to contained substances:

Dipropylene glycol monomethyl ether:

LC50 > 1,000 mg/L (fish, *Poecilia reticulata*, 96h)

LC50 = 1,919 mg/L (invertebrates, *Daphnia magna*, 48 h)

LC50 > 1,000 mg/L (invertebrati, Crangon crangon (shrimps), 96h)
E50 > 969 mg/L (algae Pseudokirchneriella subcapitata (algae cloroficee), 96h)
C(E)L50 (mg/l) = 1000

Linalool:

LC50 - Species: Fish = 27.8 mg / l - Duration h: 96 - Notes: OECD 203
EC50 - Species: Daphnia = 59 mg / l - Duration h: 48 - Notes: OECD TG 202
EC50 - Species: Algae = 156.7 mg / l - Duration h: 96

Linalyl acetate:

LC50 = 11 mg / L (pesvi, Cyprinus carpio, 96h)
EC50 = 15 mg / L (invertebrates, Daphnia magna, 48h)
EC50 = 62 mg / L (algae, Desmodesmus subspicatus, 72h)

d-limonene:

LC50 - Species: Fish = 0.72 mg / l - Duration h: 96
EC50 - Species: Fish = 0.688 mg / l - Duration h: 96
C(E)L50 (mg/l) = 0,688

3-Methoxy-Methyl-1-Butanol:

LC50>1000mg/L (fish, Oryzias latipes, 96h)
EC50>1000mg/L (daphnia, 48h)
LC50>1000mg/L (aquatic plants, 72h)

Oxacyclohexadecen-2-one:

LC50>0.803 LC50 (fish, 24-48 h)
EC50>0.96 (invertebrates, daphnia magna, 12:0 am)

octahydro tetramethyl acetonaftone:

LC50 = 1.30 mg/l (fish, lepomis macrochirus, 96h) (OECD TG 203)
EC50 = 1.38 mg/l (invertebrates, Daphnia magna, 48h) (OECD TG 202)
EC50 = 2.60 mg/l (algae Desmodesmus subspicatus, 72h,) (OECD TG201)

Pin-2(3)-ene:

LC50 = 0,28mg/L (fish, pimephales promelas, 96h)

1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one:

LC50 = 1.30 mg/l (fish, lepomis macrochirus, 83d)
EC50 = 1.38 mg/l (invertebrates, Daphnia magna, 48 h)
EC50 = 2.60 mg/l (algae Desmodesmus subspicatus, 72 h)
C(E)L50 (mg/l) = 1,3

1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one:

LC50 = 1.30 mg/l (fish, lepomis macrochirus, 83d) OECD TG 203
EC50 = 1.38 mg/l (invertebrates, Daphnia magna, 48 h) OECD TG 202
EC50 = 2.60 mg/l (algae Desmodesmus subspicatus, 72 h) OECD TG 201
NOEC - Fish = 0.16 mg/l - Note: OECD 210
C(E)L50 (mg/l) = 1,3

Dihydropentamethyl indanone:

LC50 = 2.12 mg / L (fish, Oryzias latipes, 96h)
EC50 = 1.5 mg / L (invertebrates, Daphnia magna, 48h)
EC50 = 10 mg / L (algae, Desmodesmus subspicatus, 72h)

1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one:

LC50 - Species: Fish = 1.49 mg / mL - Duration h: 96 OECD TG 204

NOEC - Species: Fish = 0.0035 mg / mL - Duration d: 35

EC50 - Species: Daphnia magna => 0.8 mg / l - Duration h: 72

EC10 - Species: A.tonsa = 0.0022 mg / mL - Duration d: 6

Citral:

EC50 - Species: Desmodesmus subspicatus (green alga) = 16 mg / l - Duration h: 72

EC50 - Species: Desmodesmus subspicatus (green alga) = 19 mg / l - Duration h: 96

LC50 - Species: Leuciscus idus = 4.6-10.0 mg / l - Duration h: 96

EC50 - Species: Daphnia magna (Water flea) = 7 mg / l - Duration h: 48

2-propenyl 3-cyclohexylpropanoate:

LC50 - Species: Fish = 0.13 mg / l - Duration h: 96

EC50 - Species: Aquatic invertebrates = 3.8 mg / l - Duration h: 48 Daphnia magna

EC50 - Species: Algae = 3 mg / l - Duration h: 72

NOEC - Species: Algae = 1.6 mg / l

2,6-di-tert-butyl-p-cresol:

The substance is harmful to aquatic organisms.

EC50 = 0,758mg/L (algae, 96h)

EC50 = 0,48mg/L (invertebrates, daphnia magna, 48 h)

LC50 = 0,199mg/L (fish, 83d)

EC50 = 1,7 mg/L (microorganisms, psaudomonas putida, 24h)

C(E)L50 (mg/l) = 0,199

Eucalyptol:

EC50 - Species: Daphnia > 100 mg/l - Durata h: 48

EC50 - Species: Algae > 74 mg/l - Durata h: 72

LC50 - Species: Fish = 57 mg/l - Durata h: 96

Citronellol:

LC50 - Species: Fish = 14.66 mg / l - Duration h: 96 - Notes: Leuciscus idus

EC50 - Species: Daphnia = 17.48 mg / l - Duration h: 48 - Notes: Daphnia magna

The product is dangerous for the environment as it is toxic to aquatic organisms following acute exposure.

Use according to good working practices to avoid pollution into the environment.

12.2. Persistence and degradability

Related to contained substances:

Dipropylenglycol monomethyl ether:

Readily degradable in the environment.

Linalool:

OECD 301 D: 64.2%

Linalyl acetate:

Degradability = 80% (28 days)

Concentration = 81 mg / L

octahydro tetramethyl acetonephthone:

OECD 301B - 28 days - 72.1%

Dihydropentamethyl indanone:

Biodegradability = 61% (28 days)
Concentration = 100 mg / L

2,6-di-tert-butyl-p-cresol:
Not rapidly biodegradable

Eucalyptol:
OECD TG 301 F - 82% 28d

Citronellol:
OECD TG 301 F - 80% 32d

12.3. Bioaccumulative potential

Related to contained substances:
Dipropylenglycol monomethyl ether:
FBC < 100
Log Pow < 3

Linalool:
Log Pow = 2.97

Linalyl acetate:
BCF = 174
Log Pow = 3.9

d-limonene:
Can be no bioaccumulation of this chemical in fish.

Dihydropentamethyl indanone:
BCF = 82
Log Pow = 4.2

1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one:
Log Pow = 5.7

12.4. Mobility in soil

Related to contained substances:
Linalyl acetate:
Koc = 518

Dihydropentamethyl indanone:
Koc = 200

12.5. Results of PBT and vPvB assessment

Based on the available data, no PBT or vPvB substances are present in accordance with Regulation (EC) 1907/2006, annex XIII

12.6. Endocrine disrupting properties

Based on available data, there are no substances that interfere with the Endocrine System in accordance with Regulation (EU) 2017/2100

12.7. Other adverse effects

No adverse effects

SECTION13. Disposal considerations

13.1. Waste treatment methods

Do not reuse empty containers. Dispose of them in accordance with the regulations in force. Any remaining product should be disposed of according to applicable regulations by addressing to authorized companies. Recover if possible. Send to authorized discharge plants or for incineration under controlled conditions. Operate according to local and National rules in force

SECTION14. Transport information

14.1. UN number or ID number

ADR/RID/IMDG/ICAO-IATA: 3082



If subject to the following characteristics is ADR exempt:

Combination packagings: per inner packaging 5 L per package 30 Kg

Inner packagings placed in skrink-wrapped or stretch-wrapped trays: per inner packaging 5 L per package 20 Kg

14.2. UN proper shipping name

ADR/RID/IMDG: MATERIA PERICOLOSA PER L'AMBIENTE, LIQUIDA, N.A.S. (Limonene, Pin-2(3)-ene, 2,6-di-ter-butyl-p-cresolo, Citronellolo)

ADR/RID/IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (d-limonene, Pin-2(3)-ene, 2,6-di-tert-butyl-p-cresol, Citronellol)

ICAO-IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (d-limonene, Pin-2(3)-ene, 2,6-di-tert-butyl-p-cresol, Citronellol)

14.3. Transport hazard class(es)

ADR/RID/IMDG/ICAO-IATA: Class : 9

ADR/RID/IMDG/ICAO-IATA: Label : 9 + Ambiente

ADR: Tunnel restriction code : --

ADR/RID/IMDG/ICAO-IATA: Limited quantities : 5 L

IMDG - EmS : F-A, S-F

14.4. Packing group

ADR/RID/IMDG/ICAO-IATA: III

14.5. Environmental hazards

ADR/RID/ICAO-IATA: Product is environmentally hazardous

IMDG: Marine polluting agent : Yes

14.6. Special precautions for user

The goods must be transported by vehicles authorized to transport of dangerous goods according to the current edition of ADR requirements and applicable national regulations.

The goods must be in original packing, however, in packaging made of materials resistant to their content and not likely to generate with this dangerous reactions. People loading and unloading dangerous goods must be trained on the risks from these substances and that must be taken in case of emergency situations.

14.7. Maritime transport in bulk according to IMO instruments

It is not intended to carry bulk

SECTION 15. Regulatory information

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

REGULATION (EC) 1907/2006 (REACH) - Annex XIV, Annex XVII as amended.
REGULATION (EC) 1272/2008 (CLP) as amended.
COMMISSION DELEGATED REGULATION (EU) 2020/1182
COMMISSION DELEGATED REGULATION (EU) 2021/643
COMMISSION DELEGATED REGULATION (EU) 2021/849
REGULATION (EU) 878/2020 (Requirements for the compilation of safety data sheets)
REGULATION (EC) 790/2009, Dir 96/82/EC as amended.

Seveso category:

E2 - ENVIRONMENTAL HAZARDS

REGULATION (EU) No 1357/2014 - waste:
HP4 - Irritant — skin irritation and eye damage
HP14 - Ecotoxic

Substances in the Candidate List (REACH Article 59)
Based on available data, no SVHC substances are present

15.2. Chemical safety assessment

No chemical safety assessment was carried out by the supplier

SECTION 16. Other information

16.1. Other information

Description of the hazard statements exposed to point 3
H315 = Causes skin irritation.
H317 = May cause an allergic skin reaction.
H319 = Causes serious eye irritation.
H226 = Flammable liquid and vapour.
H400 = Very toxic to aquatic life.
H410 = Very toxic to aquatic life with long lasting effects.
H411 = Toxic to aquatic life with long lasting effects.
H302 = Harmful if swallowed.
H304 = May be fatal if swallowed and enters airways.
H412 = Harmful to aquatic life with long lasting effects.
H413 = May cause long lasting harmful effects to aquatic life.
H312 = Harmful in contact with skin.
H332 = Harmful if inhaled.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008

H315-Causes skin irritation.Classification procedure:Calculation method
H317-May cause an allergic skin reaction.Classification procedure:Calculation method

H319-Causes serious eye irritation.Classification procedure:Calculation method
H411-Toxic to aquatic life with long lasting effects.Classification procedure:Calculation method

Bibliographic data :

SAX 12 Ed Van Nostrand Reinhold

MERCK INDEX 15 Ed

ECHA: European Chemicals Agency (<https://echa.europa.eu/it/information-on-chemicals>)

OSHA: European Agency for Safety and Health at Work

IARC: International Agency for Research on Cancer

IPCS: International Programme on Chemical Safety (Cards)

NIOSH: Registry of toxic effects of chemical substances (1983)

ACGIH: American Conference of Governmental Industrial Hygienists

TOXNET: Toxicology Data Network

WHO: World Health Organization

CheLIST: Chemical Lists Information System

GESTIS: International Limit Value (<https://limitvalue.ifa.dguv.de/>)**Acronyms:**

- ACGIH American Conference of Governmental Industrial Hygienists
- ADR Accord Européen Relatif au Transport International des Marchandises Dangereuses par Route (European accord regarding international transport of dangerous goods by land)
- bw body weight
- CLP Classification, Labelling and Packaging
- CSR Chemical Safety Report
- DMEL Derived Minimal Effect Level
- DNEL Derived No Effect Level
- dw dry weight
- EC Effective Concentration
- IATA International Air Transport Association
- IMDG International Maritime Dangerous Goods
- LC Lethal Concentration
- LD Lethal Dose
- m.w. molecular weight
- PBT Persistent, Bioaccumulative and Toxic
- PNEC Predicted No Effect Concentration
- OECD Organisation / Office for Economic Co-operation and Development
- STEL Short Term Exposure Limit
- SVHC Substance of Very High Concern
- TLV Threshold Limit Value
- TWA Time Weighted Average
- vPvB very Persistent, very Bioaccumulative and toxic
- WGK Wassergefährdungsklasse (Water hazard class)

NOTICE TO USERS

The information contained in this sheet are based on the knowledge available at the date of the preparation of this sheet.

The user must be aware of the possible risks associated with the use of the product, other than that for which the product is supplied. The sheet does not exonerate the user from knowing and applying all the regulations governing its activities. The set of regulations mentioned is simply to help the user to fulfill its obligations regarding the use of hazardous products.

This sheet does not exonerate the user from other legal obligations than those mentioned and from rules regulating possession and use of the product, since the user is the only responsible.

*** This sheet supersedes all previous editions.