

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended



FRESH LEMON 12X400ML

WM 0716877

Order number: 0716877

Version 2.3

Revision Date 02.09.2026

Print Date 09.09.2026

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : FRESH LEMON 12X400ML
UFI : NH0C-R0DP-800K-FDGF

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

Use of the Substance/Mixture : Fragrances
Restricted to professional users.

1.3 Details of the supplier of the safety data sheet

Company : Tana Chemie GmbH
Rheinallee 96
55120 Mainz
Telephone : +49613196403
Telefax : +4961319642526
E-mail address : Produktsicherheit@werner-mertz.com
Responsible/issuing person
Contact person : Product development / product safety

1.4 Emergency telephone

EU: 112

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Aerosols, Category 1	H222: Extremely flammable aerosol. H229: Pressurised container: May burst if heated.
Skin sensitization, Category 1	H317: May cause an allergic skin reaction.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Specific target organ toxicity - single exposure, Category 3	H336: May cause drowsiness or dizziness.

2.2 Label elements

Labeling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal Word : Danger

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Hazard Statements	:	H222 H229 H317 H319 H336	Extremely flammable aerosol. Pressurised container: May burst if heated. May cause an allergic skin reaction. Causes serious eye irritation. May cause drowsiness or dizziness.
Precautionary Statements	:	P102 Prevention: P210 P211 P251 P261 P271 Storage: P410 + P412 Disposal: P501	Keep out of reach of children. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Avoid breathing spray. Use only outdoors or in a well-ventilated area. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. Dispose of container into the collection of recyclables only when it is completely empty.

Hazardous ingredients which must be listed on the label:

propan-2-ol
(R)-p-mentha-1,8-diene
citronellol
nerol
linalyl acetate

Safety data sheet available on request.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
ethanol	64-17-5	Flam. Liq. 2; H225	>= 15 - < 20

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	200-578-6 603-002-00-5 01-2119457610-43	Eye Irrit. 2; H319 specific concentration limit Eye Irrit. 2; H319 ≥ 50 %	
propan-2-ol	67-63-0 200-661-7 603-117-00-0 01-2119457558-25	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 (Central nervous system)	≥ 5 - < 10
citronellol	106-22-9 203-375-0 01-2119453995-23	Skin Sens. 1B; H317 Skin Irrit. 2; H315 Eye Irrit. 2; H319	≥ 0,1 - < 1
nerol	106-25-2 203-378-7	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317	≥ 0,1 - < 1
linalyl acetate	115-95-7 204-116-4 01-2119454789-19	Skin Irrit. 2; H315 Skin Sens. 1B; H317	≥ 0,1 - < 1
(R)-p-mentha-1,8-diene	5989-27-5 227-813-5 601-096-00-2 01-2119529223-47	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Aquatic Chronic 3; H412 Aquatic Acute 1; H400 Asp. Tox. 1; H304 Skin Sens. 1B; H317 M-Factor (Acute aquatic toxicity): 11	≥ 0,1 - < 0,25

SECTION 4: First aid measures

4.1 Description of first-aid measures

- General advice : Move out of dangerous area.
Consult a physician.
Show this material safety data sheet to the doctor in attendance.
- If inhaled : Move to fresh air in case of accidental inhalation of dust or fumes
from overheating or combustion.
If symptoms persist, call a physician.
- In case of skin contact : Take off contaminated clothing and shoes immediately.
Wash off with soap and plenty of water.
If symptoms persist, call a physician.
- In case of eye contact : Protect unharmed eye.
If easy to do, remove contact lens, if worn.
Rinse immediately with plenty of water, also under the eyelids, for at
least 15 minutes.
If eye irritation persists, consult a specialist.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.

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Obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : Irritation
- Risks : Causes serious eye irritation.
- No information available.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : For specialist advice physicians should contact the Poisons Information Service.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2 Special hazards arising from the substance or mixture

- Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : No hazardous combustion products are known

5.3 Advice for firefighters

- Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.
- Further information : Use water spray to cool unopened containers.
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Personal precautions : Use personal protective equipment.
Ensure adequate ventilation.
Remove all sources of ignition.
Evacuate personnel to safe areas.
Beware of vapors accumulating to form explosive concentrations.
Vapors can accumulate in low areas.

6.2 Environmental precautions

- Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.

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6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Use mechanical handling equipment.

6.4 Reference to other sections

For personal protection see section 8., Treat recovered material as described in the section "Disposal considerations", Refer to section 15 for specific national regulation.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Take precautionary measures against static discharges.
Container may be opened only under exhaust ventilation hood.
Open drum carefully as content may be under pressure.
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Use explosion-proof equipment. Keep away from sources of ignition -
No smoking. Take measures to prevent the build up of electrostatic charge.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. When using do not smoke.
Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in original container. Store in cool place. Keep in a well-ventilated place. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards. Store at room temperature in the original container.

Further information on storage stability : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : Fragrances

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Routes of exposure	Potential health effects	Value
ethanol	Workers	Inhalation	Acute local effects	1900 mg/m3

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	Workers	Inhalation	Long-term systemic effects	950 mg/m3
	Workers	Skin contact	Long-term systemic effects	343 mg/kg
	Consumers	Inhalation	Acute local effects	950 mg/m3
	Consumers	Skin contact	Long-term systemic effects	206 mg/kg
	Consumers	Inhalation	Long-term systemic effects	114 mg/m3
	Consumers	Ingestion	Long-term systemic effects	87 mg/kg
	Consumers	Skin contact	Acute local effects	950 mg/m3
isopropanol	Workers	Skin contact	Long-term systemic effects	888 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	500 mg/m3
	Consumers	Skin contact	Long-term systemic effects	319 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	26 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	89 mg/m3
citronellol, dl-Citronellol	Workers	Inhalation	Long-term systemic effects	161,6 mg/m3
	Workers	Inhalation	Long-term local effects	10 mg/m3
	Workers	Inhalation	Acute local effects	10 mg/m3
	Workers	Skin contact	Long-term systemic effects	45,8 mg/kg
	Workers	Skin contact	Long-term systemic effects	327,4 mg/kg
	Workers	Skin contact	Acute local effects	2,95 mg/cm2
	Consumers	Inhalation	Long-term systemic effects	47,8 mg/m3
	Consumers	Inhalation	Long-term local effects	10 mg/m3

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	Consumers	Inhalation	Acute local effects	10 mg/m3
	Consumers	Skin contact	Long-term systemic effects	196,4 mg/kg
	Consumers	Skin contact	Acute local effects	2,95 mg/cm2
	Consumers	Ingestion	Long-term systemic effects	13,8 mg/kg
	Consumers	Skin contact	Long-term systemic effects	27,5 mg/kg
	Consumers	Skin contact	Long-term local effects	29,5 mg/cm2
	Workers	Skin contact	Long-term local effects	29,5 mg/cm2
linalyl acetate	Workers	Inhalation	Long-term systemic effects	2,75 mg/m3
	Workers	Skin contact	Long-term systemic effects	2,5 mg/kg
	Consumers	Inhalation	Long-term systemic effects	0,68 mg/m3
	Consumers	Skin contact	Long-term systemic effects	1,25 mg/kg
	Consumers	Ingestion	Long-term systemic effects	0,2 mg/kg
	Workers	Skin contact	Acute local effects	0,24 mg/cm2
	Workers	Skin contact	Long-term local effects	0,24 mg/cm2
	Consumers	Skin contact	Acute local effects	0,24 mg/cm2
	Consumers	Skin contact	Long-term local effects	0,24 mg/cm2

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
ethanol	Fresh water	0,96 mg/l
	Sea water	0,79 mg/l
	Fresh water sediment	3,6 mg/kg
	Soil	0,63 mg/kg
	STP	580 mg/l
	intermittent release	2,75 mg/l

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isopropanol	Fresh water	140,9 mg/l
	Sea water	140,9 mg/l
	Fresh water sediment	552 mg/kg dry weight (d.w.)
	Soil	28 mg/kg
	intermittent release	140,9 mg/l
	STP	2251 mg/l
	Oral	160 mg/kg
citronellol, dl-Citronellol	Fresh water	0,0024 mg/l
	Sea water	0,00024 mg/l
	intermittent release	0,024 mg/l
	STP	580 mg/l
	Fresh water sediment	0,0256 mg/kg
	Sea sediment	0,00256 mg/kg
	Soil	0,00371 mg/kg
linalyl acetate	Fresh water	0,011 mg/l
	Sea water	0,0011 mg/l
	intermittent release	0,11 mg/l
	STP	10 mg/l
	Fresh water sediment	0,609 mg/kg
	Sea sediment	0,0609 mg/kg
	Soil	0,115 mg/kg

8.2 Exposure controls

Personal protective equipment

Eye/face protection : If splashes are likely to occur, wear:
Tightly fitting safety goggles

Hand protection

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Material : For prolonged or repeated contact use protective gloves.

It is suggested the usage of chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374.

As alternative, a different type of gloves might be used if, accordingly to the recommendations of the producer, guarantee the same level of protection.

Remarks : Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Skin and body protection : not required under normal use

Respiratory protection : Not required; except in case of aerosol formation.

Recommended Filter type:

ABEK-P3-filter

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : aerosol

Color : colorless, light yellow

Odor : odorized, fruity

Melting point/freezing point : No data available

Boiling point/boiling range : No data available

Flammability (solid, gas) : No data available

Flammability (liquids) : No data available

Lower explosion limit : 1,4 %(V)

Upper explosion limit : 10,8 %(V)

Flash point : -60 °C

Ignition temperature : > 350 °C

Decomposition temperature : No data available

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pH	: 5 - 7, 10 % at 20 °C
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Water solubility	: No data available
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Vapor pressure	: 0,27 MPa at 20 °C
Density	: ca. 0,625 g/cm ³
Relative density	: No data available
Relative vapor density	: No data available
Particle characteristics	: No data available

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions.
No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : Stable under recommended storage conditions.
No decomposition if used as directed.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : No data available

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

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

Our company is strongly against animal testing.
Our company does not place any orders for animal testing for the finished product or the ingredients.
However, as a result of EU legislation (REACH Regulation), the manufacturers of ingredients or EU importers are obliged to test ingredients with regard to their effects on human health and the environment before they are brought onto the market. Some of the tests made necessary by this took place decades ago.

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Acute toxicity

Not classified due to lack of data.

Acute toxicity : Not Rated

Components:

ethanol

64-17-5:

Acute oral toxicity : LD50 Oral (Rat): 10.470 mg/kg
Method: OECD Test Guideline 401

LD50 (Rat): 5.000 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): 51 mg/l
Exposure time: 4 h

Acute dermal toxicity : LD50 Dermal (Rabbit): > 2.000 mg/kg
Method: OECD Test Guideline 402

LD50 Dermal (Rabbit): > 10.000 mg/kg
Method: OECD Test Guideline 402

propan-2-ol

67-63-0:

Acute oral toxicity : LD50 Oral (Rat): 5.840 mg/kg
Method: OECD Test Guideline 401

LD50 Oral (Rat): 4.570 mg/kg

LD50 Oral (Rat): 5.045 mg/kg

Acute inhalation toxicity : LC50 (Rat, female): 47,5 mg/l
Exposure time: 8 h
Method: OECD Test Guideline 403

LC50 (Rat): 72,6 mg/l
Exposure time: 4 h

LC50 (Mouse): 27,2 mg/l
Exposure time: 4 h

LC50 (Rat): 25 mg/l
Exposure time: 6 h
Method: OECD Test Guideline 403

LC50 (Rat): 30 mg/l
Exposure time: 4 h

LC50 (Rat, male and female): 10000 ppm
Exposure time: 6 h

Acute dermal toxicity : LD50 (Rabbit): 12.800 mg/kg
Method: OECD Test Guideline 402

LD50 Dermal (Rabbit): 12.874 mg/kg

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Method: OECD Test Guideline 402

LD50 Dermal (Rabbit): 13.900 mg/kg

Method: OECD Test Guideline 402

LD50 Dermal (Rabbit): 13.400 mg/kg

citronellol

106-22-9:

Acute oral toxicity : LD50 (Rat): 3.450 mg/kg

Acute inhalation toxicity : LC50: > 100 mg/l

Acute dermal toxicity : LD50 (Rabbit): 2.650 mg/kg

nerol

106-25-2:

Acute oral toxicity : LD50 (Rat): 4.500 mg/kg
Method: OECD Test Guideline 401
GLP: no

LD50 (Rat): > 2.000 mg/kg

Acute inhalation toxicity : LC50: 100 mg/l

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg

LD50: > 5.000 mg/kg

LD50 Dermal (Rabbit): > 5.000 mg/kg
Method: OECD Test Guideline 402

linalyl acetate

115-95-7:

Acute oral toxicity : LD50 Oral (Rat): 13.934 mg/kg

LD50 (Rat, male and female): > 9.000 mg/kg
GLP: no

Acute inhalation toxicity : LC50: > 100 mg/l

Acute dermal toxicity : LD50 Dermal (Rabbit): > 5.000 mg/kg
GLP: no

Acute toxicity (other routes of administration) : LD50 (Mouse): 721 mg/kg
Method: see user defined free text

(R)-p-mentha-1,8-diene

5989-27-5:

Acute oral toxicity : LD50 Oral (Rat, female): > 2.000 mg/kg
Method: OECD Test Guideline 423
GLP: yes

Acute inhalation toxicity : LC50: > 100 mg/l

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Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg
Remarks: Based on data from similar materials

Skin corrosion/irritation

Not classified due to lack of data.

Product:

Remarks : According to the classification criteria of the European Union, the product is not considered as being a skin irritant.

Components:

ethanol

64-17-5:

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation

propan-2-ol

67-63-0:

Species : Rabbit
Result : No skin irritation

citronellol

106-22-9:

Species : Rabbit
Exposure time : 4 h
Method : OECD Test Guideline 404
Result : irritating
GLP : yes

nerol

106-25-2:

Species : Rabbit
Exposure time : 4 h
Method : OECD Test Guideline 404
Result : Skin irritation
GLP : yes

linalyl acetate

115-95-7:

Species : Rabbit
Exposure time : 4 h
Method : OECD Test Guideline 404
Result : Skin irritation
GLP : No information available.

(R)-p-mentha-1,8-diene

5989-27-5:

Species : Rabbit
Exposure time : 4 h
Method : OECD Test Guideline 404

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Result : Skin irritation
GLP : yes

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Remarks : Causes serious eye irritation.

Components:

ethanol

64-17-5:

Species : Rabbit
Method : OECD Test Guideline 405
Result : Mild eye irritation

propan-2-ol

67-63-0:

Species : Rabbit
Method : OECD Test Guideline 405
Result : irritating

citronellol

106-22-9:

Species : Rabbit
Method : Draize Test
Result : Eye irritation

nerol

106-25-2:

Species : Rabbit
Method : OECD Test Guideline 405
Result : Moderate eye irritation
GLP : no

linalyl acetate

115-95-7:

Species : Rabbit
Result : Eye irritation
GLP : no

(R)-p-mentha-1,8-diene

5989-27-5:

Species : Rabbit
Method : OECD Test Guideline 405
Result : Mild eye irritation
GLP : yes

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Respiratory or skin sensitization

Skin sensitization

Not classified due to lack of data.

Respiratory sensitization

Not classified due to lack of data.

Product:

Remarks : No data available

Components:

ethanol

64-17-5:

Result : Not a skin sensitizer.

propan-2-ol

67-63-0:

Test Type : Buehler Test
Species : Guinea pig
Method : OECD Test Guideline 406
Result : Does not cause skin sensitization.

citronellol

106-22-9:

Test Type : Local lymph node assay (LLNA)
Species : Mouse
Method : OECD Test Guideline 429
Result : Causes sensitization.
GLP : yes

nerol

106-25-2:

Test Type : Local lymph node assay (LLNA)
Species : Mouse
Method : OECD Test Guideline 429
Result : Causes sensitization.
GLP : yes

(R)-p-mentha-1,8-diene

5989-27-5:

Test Type : Local lymph node assay (LLNA)
Species : Mouse
Method : OECD Test Guideline 429
Result : Causes sensitization.
GLP : yes

Germ cell mutagenicity

Not classified due to lack of data.

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Germ cell mutagenicity : Not Rated

Components:

propan-2-ol

67-63-0:

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Result: negative

citronellol

106-22-9:

Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative

Test Type: In vitro mammalian cell gene mutation test
Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: yes

Genotoxicity in vivo : Test Type: Micronucleus test
Species: Mouse (male)
Cell type: Bone marrow
Application Route: Oral
Method: OECD Test Guideline 474
GLP: yes
Remarks: negative

nerol

106-25-2:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro
Test system: Human lymphocytes
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
GLP: yes

Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes

Test Type: gene mutation test
Test system: mouse lymphoma cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: yes

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linalyl acetate

115-95-7:

Genotoxicity in vitro

: Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative

Test Type: Chromosome aberration test in vitro
Test system: Human lymphocytes
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative

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

Genotoxicity in vivo

: Test Type: Micronucleus test
Species: Mouse (male and female)
Cell type: Bone marrow
Application Route: Oral
Method: OECD Test Guideline 474
GLP: yes
Remarks: negative

(R)-p-mentha-1,8-diene

5989-27-5:

Genotoxicity in vitro

: Method: OECD Test Guideline 476
Result: negative

Carcinogenicity

Not classified due to lack of data.

Carcinogenicity : Not Rated

Reproductive toxicity

Not classified due to lack of data.

Reproductive toxicity : Not Rated

STOT-single exposure

Not classified due to lack of data.

STOT-single exposure : The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT-repeated exposure

Not classified due to lack of data.

STOT-repeated exposure : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

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Repeated dose toxicity

Components:

ethanol

64-17-5:

Species : Rat, male
NOAEL : > 20 mg/kg
Method : OECD Test Guideline 403

Species : Rat, female
NOAEL : 1.730 mg/kg
Method : OECD Test Guideline 408

linalyl acetate

115-95-7:

Species : Rat, male and female
NOAEL : 160 mg/kg
Application Route : Oral
Exposure time : 28 d
Method : OECD Test Guideline 407
GLP : yes

Species : Rat, male and female
NOAEL : 250 mg/kg
Application Route : Dermal
Exposure time : 91 d
Method : OECD Test Guideline 411
GLP : yes

Aspiration toxicity

Not classified due to lack of data.

Aspiration toxicity : Not Rated

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Further information

Product:

Remarks : No data available

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SECTION 12: Ecological information

12.1 Toxicity

Components:

ethanol

64-17-5:

Toxicity to fish

: LC50 (Oncorhynchus mykiss (rainbow trout)): 13 g/l
Exposure time: 96 h
Method: OECD Test Guideline 203

LC50 (Leuciscus idus (Golden orfe)): 8.150 mg/l
Exposure time: 48 h

LC50 (Pimephales promelas (fathead minnow)): > 0,1 g/l
Exposure time: 96 h

LC50 (Fish): 11.200 mg/l

Toxicity to daphnia and other
aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 12.340 mg/l
Exposure time: 48 h

EC50 : 5.012 mg/l

Toxicity to algae/aquatic plants

: EC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l
Exposure time: 72 h
Test Type: Growth inhibition
Method: OECD Test Guideline 201

EC50 (Scenedesmus capricornutum (fresh water algae)): 12.900
mg/l
Exposure time: 48 h
Test Type: Growth inhibition
Method: No information available.

EC0 (Scenedesmus quadricauda (Green algae)): 5.000 mg/l
Exposure time: 168 h

EC50 : 4.432 mg/l

EC10 : 11,5 mg/l

EC10 : 280 mg/l

Toxicity to microorganisms

: EC50 (Pseudomonas putida): 11.800 mg/l
Exposure time: 16 h
Test Type: Cell multiplication inhibition test

isopropanol

67-63-0:

Toxicity to fish

: LC50 (Lepomis macrochirus (Bluegill sunfish)): 1.400 mg/l
Exposure time: 96 h

LC50 (Pimephales promelas (fathead minnow)): 9.640 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

LC50 (Leuciscus idus (Golden orfe)): > 100 mg/l

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	Exposure time: 48 h Test Type: static test GLP: no
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 13.299 mg/l Exposure time: 48 h Test Type: Immobilization Method: OECD Test Guideline 202 EC50 (Daphnia magna (Water flea)): 9.714 mg/l Exposure time: 24 h Method: OECD Test Guideline 202 EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Test Type: static test GLP: no (Daphnia): > 10.000 mg/l Method: OECD Test Guideline 202 NOEC (Daphnia magna (Water flea)): 30 mg/l Exposure time: 21 d EC50 (Daphnia magna (Water flea)): 10.000 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	: IC50 (Desmodesmus subspicatus (green algae)): > 1.000 mg/l Exposure time: 72 h Test Type: Growth inhibition EC50 (Pseudokirchneriella subcapitata (microalgae)): > 100 mg/l Exposure time: 72 h Test Type: static test GLP: no ErC50 (Pseudokirchneriella subcapitata (green algae)): > 1.000 mg/l Exposure time: 72 h EC50 (Scenedesmus subspicatus): > 100 mg/l Exposure time: 72 h Test Type: static test
Toxicity to microorganisms	: EC50 (Aliivibrio fischeri): 17.700 mg/l Exposure time: 5 min EC10 (Pseudomonas putida): 5.175 mg/l Exposure time: 18 h Method: DIN 38412
citronellol, dl-Citronellol	
106-22-9:	
Toxicity to fish	: LC50 (Leuciscus idus (Golden orfe)): 14,66 mg/l Exposure time: 96 h Method: DIN 38412 GLP: no
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 17,48 mg/l Exposure time: 48 h

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- Toxicity to algae/aquatic plants : IC50 : 2,4 mg/l
Exposure time: 72 h
- Toxicity to microorganisms : EC50 (Pseudomonas putida): > 10.000 mg/l
Exposure time: 0,5 h

nerol

106-25-2:

- Toxicity to fish : LC50 (Danio rerio (zebra fish)): 20,3 mg/l
Exposure time: 96 h
Test Type: semi-static test
Analytical monitoring: yes
Method: OECD Test Guideline 203
GLP: yes
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 32,4 mg/l
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes
- Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 9,54 mg/l
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes
- Toxicity to microorganisms : EC50 (activated sludge): 241 mg/l
Exposure time: 3 h
Test Type: Respiration inhibition
Analytical monitoring: no
Method: OECD Test Guideline 209
GLP: yes

linalyl acetate

115-95-7:

- Toxicity to fish : LC50 (Cyprinus carpio (Carp)): 11 mg/l
Exposure time: 96 h
Test Type: flow-through test
Analytical monitoring: yes
Method: OECD Test Guideline 203
GLP: yes
- 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
- Toxicity to algae/aquatic plants : EC10 (Desmodesmus subspicatus (green algae)): 54,3 mg/l
Exposure time: 96 h
Test Type: static test
Analytical monitoring: no
Method: see user defined free text
GLP: no

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EC50 (Desmodesmus subspicatus (green algae)): 156,7 mg/l
Exposure time: 96 h
Test Type: static test
Analytical monitoring: no
Method: see user defined free text
GLP: no

Toxicity to microorganisms : EC20 (activated sludge): > 1.000 mg/l
Exposure time: 0,5 h
Test Type: Respiration inhibition
Analytical monitoring: no
Method: ISO 8192
GLP: no

(R)-p-mentha-1,8-diene

5989-27-5:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 34 mg/l

LC50 (Pimephales promelas (fathead minnow)): 0,7 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia pulex (Water flea)): 70 mg/l
Exposure time: 48 h

EC50 (Daphnia magna (Water flea)): 0,4 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : NOEC (Selenastrum capricornutum (green algae)): 4 mg/l
Exposure time: 96 h

(Raphidocelis subcapitata (freshwater green alga)): 0,32 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

(Raphidocelis subcapitata (freshwater green alga)): 0,174 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity) : 1

1

Toxicity to microorganisms : EC50 (activated sludge): 209 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209

EC10 (activated sludge): 18 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209

12.2 Persistence and degradability

Components:

ethanol

64-17-5:

Biodegradability : Result: Readily biodegradable.

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Biodegradation: 97 %
Method: OECD Test Guideline 301

isopropanol

67-63-0:

Biodegradability

: Result: rapidly biodegradable
Biodegradation: 95 %
Exposure time: 21 d
Method: OECD 301 E

Inoculum: activated sludge
Result: rapidly biodegradable
Biodegradation: 53 %
Exposure time: 5 d

Result: rapidly biodegradable
Biodegradation: > 70 %
Exposure time: 10 d
GLP: no

Biodegradation: 99,9 %
Method: see user defined free text

Chemical Oxygen Demand
(COD)

: 2,32 g/kg

ThOD

: 2,40 g/g

citronellol, dl-Citronellol

106-22-9:

Biodegradability

: Biodegradation: 90 %
Exposure time: 28 d
Method: OECD 301 F

Test Type: aerobic
Inoculum: activated sludge
Result: rapidly biodegradable
Biodegradation: 80 - 90 %
Exposure time: 28 d
GLP: no

Chemical Oxygen Demand
(COD)

: 2.050 mg/g

ThOD

: 2.961 mg/g

nerol

106-25-2:

Biodegradability

: Result: Readily biodegradable.
Biodegradation: 91 %
Exposure time: 28 d
Method: OECD 301 F
GLP: yes

Result: Readily biodegradable.
Biodegradation: 90 %
Exposure time: 28 d
Method: OECD 301 D

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GLP: yes

linalyl acetate

115-95-7:

Biodegradability

: Result: Not readily biodegradable.
Biodegradation: 76 %
Exposure time: 28 d
Method: OECD 301 F
GLP: no

(R)-p-mentha-1,8-diene

5989-27-5:

Biodegradability

: Result: Readily biodegradable.
Biodegradation: 71 %
Exposure time: 28 d
Method: OECD 301 B
GLP: yes

12.3 Bioaccumulative potential

Components:

ethanol

64-17-5:

Bioaccumulation

: Concentration: 3,2 mg/l

Partition coefficient: n-octanol/water

: log Pow: -0,32

isopropanol

67-63-0:

Bioaccumulation

: Remarks: No bioaccumulation is to be expected (log Pow <= 4).

Partition coefficient: n-octanol/water

: log Pow: 0,05 (25 °C)

citronellol, dl-Citronellol

106-22-9:

Partition coefficient: n-octanol/water

: log Pow: 3,41 (25 °C)

12.4 Mobility in soil

Components:

isopropanol

67-63-0:

Distribution among environmental compartments

: Koc: 25
Remarks: Highly mobile in soils

citronellol, dl-Citronellol

106-22-9:

Mobility

: Remarks: see user defined free text

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nerol

106-25-2:

Mobility : Remarks: see user defined free text

linalyl acetate

115-95-7:

Mobility : Remarks: see user defined free text

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Components:

isopropanol

67-63-0:

Assessment : Not very persistent and very bioaccumulative (vPvB).. Not persistent, bioaccumulative, and toxic (PBT).

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

Product:

Additional ecological information : There is no data available for this product.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with chemical or used container.
In accordance with local and national regulations.

Contaminated packaging : Empty remaining contents.
Empty pressure vessels should be returned to the supplier.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.

Waste Code : European Waste Catalog
16 05 04
According to the European Waste Catalog, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

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SECTION 14: Transport information

14.1 UN number or ID number

ADR : 1950
IMDG : 1950
IATA : 1950

14.2 UN proper shipping name

ADR : AEROSOLS
IMDG : AEROSOLS
IATA : Aerosols, flammable

14.3 Transport hazard class(es)

ADR : 2
IMDG : 2.1
IATA : 2.1

14.4 Packing group

ADR
Classification Code : 5F
Labels : 2.1
Tunnel restriction code : (D)
IMDG
Labels : 2.1
EmS Number : F-D, S-U
IATA
(Cargo) : Aerosols, flammable
Labels : 2.1

14.5 Environmental hazards

ADR
Environmentally hazardous : no

IMDG
Marine pollutant : no
IATA
Environmentally hazardous : no

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

For personal protection see section 8.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

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REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : 75-28-5
106-97-8

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

		Quantity 1	Quantity 2
P2	FLAMMABLE GASES	10 000067	50 000067

TA Luft List (Germany) : Total dust: Not applicable
: Inorganic substances in powdered form: Not applicable
: Inorganic substances in vapor or gaseous form: Not applicable
: Organic Substances: Not applicable
: Carcinogenic substances: Not applicable
: mutagenic: Not applicable
: Toxic to reproduction: Not applicable

Volatile organic compounds (VOC) content : Directive 2010/75/EU of 24 November 2010 on industrial and livestock rearing emissions (integrated pollution prevention and control)
Update: Percent volatile: 99,45 %

according to Detergents Regulation EC 648/2004 : >=30% aliphatic hydrocarbons, perfumes, CITRONELLOL, LIMONENE

15.2 Chemical Safety Assessment

SECTION 16: Other information

Full text of H-Statements

H225 : Highly flammable liquid and vapor.
H226 : Flammable liquid and vapor.
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.
H336 : May cause drowsiness or dizziness.
H400 : Very toxic to aquatic life.
H412 : Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Aquatic Acute : Short-term (acute) aquatic hazard
Aquatic Chronic : Long-term (chronic) aquatic hazard
Asp. Tox. : Aspiration hazard
Eye Irrit. : Eye irritation
Flam. Liq. : Flammable liquids
Skin Irrit. : Skin irritation
Skin Sens. : Skin sensitization
STOT SE : Specific target organ toxicity - single exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or

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Reproductive Toxicant; DIN - Standard of the German Institute for Standardization; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; 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; 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 Organization 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; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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, Authorization and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture:

Aerosol 1	H222, H229
Skin Sens. 1	H317
Eye Irrit. 2	H319
STOT SE 3	H336

Classification procedure:

Calculation method
Calculation method
Calculation method
Calculation method

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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