

SAFETY DATA SHEET

Citrus Cleaner Ltr

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

1.1. Product identifier

Trade name

Citrus Cleaner Ltr

Unique formula identifier (UFI)

NDEN-6W4N-XR9W-FWWQ

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

Relevant identified uses of the substance or mixture

Industrial purposes

Use descriptors (REACH)

Sector of use	Description
LCS "PW"	Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
Product categories	Description
PC24	Lubricants, Greases and Release Products
Process Categories	Description
PROC19	Hand-mixing with intimate contact and only PPE available
Environmental release categories	Description
ERC8a	Wide dispersive indoor use of processing aids in open systems

Uses advised against

No special

1.3. Details of the supplier of the safety data sheet

Company and address

Pureno A/S

Rønnevangs Alle 8

3400 Hillerød

Danmark

+45 70 260 267

Contact person

Kenneth Christensen

E-mail

kc@pureno.dk

SDS date

2021-05-19

SDS Version

3.0

Date of previous version

2021-05-19 (2.0)

1.4. Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h service).

See section 4 "First aid measures".

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Flam. Liq. 2; H225, Highly flammable liquid and vapour.

Asp. Tox. 1; H304, May be fatal if swallowed and enters airways.

Skin Irrit. 2; H315, Causes skin irritation.

Skin Sens. 1; H317, May cause an allergic skin reaction.

Eye Irrit. 2; H319, Causes serious eye irritation.

Aquatic Chronic 3; H412, Harmful to aquatic life with long lasting effects.

2.2. Label elements

Hazard pictogram(s)



Signal word

Danger

Hazard statement(s)

Highly flammable liquid and vapour.

May be fatal if swallowed and enters airways.

Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye irritation.

Harmful to aquatic life with long lasting effects.

Safety statement(s)

General

-

Prevention

P261, Avoid breathing mist / vapour.

P280, Wear eye protection / protective gloves / protective clothing.

Response

P301+P310, IF SWALLOWED: Immediately call a POISON CENTER / doctor.

P331, Do NOT induce vomiting.

Storage

P403+P235, Store in a well-ventilated place. Keep cool.

Disposal

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

Hazardous substances

appelsin, sød, ekstrakt

2.3. Other hazards

Additional labelling

Not applicable

Additional warnings

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

According to EC-Regulation 1907/2006 (REACH), annex II, as implemented by EC-Regulation 2015/830

Product/substance	Identifiers	% w/w	Classification	Note
1-methoxypropan-2-ol	CAS No.: 107-98-2 EC No.: 203-539-1 REACH: Index No.: 603-064-00-3	40-60%	Flam. Liq. 3, H226	[1]
ethanol	CAS No.: 64-17-5 EC No.: 200-578-6 REACH: 01-2120063206-63-XXXX Index No.: 603-002-00-5	25-40%	Flam. Liq. 2, H225 Eye Irrit. 2, H319 (SCL: 50.00 %)	
appelsin, sød, ekstrakt	CAS No.: 8028-48-6 EC No.: 232-433-8 REACH: Index No.: 603-064-00-3	15-25%	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411	
Propan-2-ol	CAS No.: 67-63-0 EC No.: 200-661-7 REACH: Index No.: 603-117-00-0	3-5%	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

[1] European occupational exposure limit

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

If skin irritation occurs: Get medical advice/attention.

Eye contact

Upon irritation of the eye: Remove contact lenses. Flush eyes immediately with plenty of water or isotonic water (20-30°C) for at least 5 minutes and continue until irritation stops. Make sure to flush under upper and lower eyelids. If irritation continues, contact a doctor. Continue flushing during transport.

Ingestion

IF SWALLOWED: Immediately call a POISON CENTER / doctor.

Do not induce vomiting! If vomiting occurs, keep head facing down so that vomit does not get into the lungs. Call a doctor or ambulance. Symptoms of chemical pneumonia can appear after several hours. People who have swallowed the product should therefore be kept under medical attention for at least 48 hours.

Burns

Rinse with water until pain stops then continue to rinse for 30 minutes.

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

This product contains substances that can cause chemical pneumonia if swallowed. Symptoms of chemical pneumonia may appear after several hours.

Sensitisation: This product contains substances, which may trigger allergic reaction upon dermal contact.

Manifestation of allergic reactions typically takes place within 12-72 hours after exposure.

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

Neurotoxic effects: This product contains organic solvents, which may cause adverse effects to the nervous system. Symptoms of neurotoxicity include: loss of appetite, headache, dizziness, ringing in ears, tingling sensations of skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer and may result in an increased absorption potential of other hazardous substances at the area of exposure.

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

IF exposed or concerned:

Get immediate medical advice/attention.

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

Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.

Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Carbon oxides (CO / CO₂).

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Storages not yet ignited must be cooled by water mist. Remove flammable materials if conditions allow it. Ensure sufficient ventilation.

Avoid direct contact with spilled substances.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities.

6.3. Methods and material for containment and cleaning up

Limit spillage and collect using granular absorbent or similar materials, and dispose of it in accordance with the regulations on dangerous waste.

Use sand, sawdust, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations.

To the extent possible cleaning is performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section 13 on "Disposal considerations" in regard of handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Ground and bond container and receiving equipment.

Use explosion-proof [electrical / lighting / ventilating]equipment.

Use non-sparking tools.

Take action to prevent static discharges.

It is recommended to install waste collection trays in order to prevent emissions to the waste water system and surrounding environment.

Avoid direct contact with the product.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers and store protected from moisture and light. Containers should be dated when opened and tested periodically for the presence of peroxides. Do not exceed storage time limits.

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Take action to prevent static discharges.

Must be stored in a cool and well-ventilated area, away from possible sources of ignition.

Recommended storage material

Always store in containers of the same material as the original container.

Storage temperature

> 0°C

Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

—
1-methoxypropan-2-ol

Long term exposure limit (8 hours) (ppm): 100

Long term exposure limit (8 hours) (mg/m³): 375

Short term exposure limit (15 minutes) (ppm): 150

Short term exposure limit (15 minutes) (mg/m³): 560

Annotations:

Sk = Can be absorbed through the skin and lead to systemic toxicity.

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ethanol

Long term exposure limit (8 hours) (ppm): 1000

Long term exposure limit (8 hours) (mg/m³): 1920

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Propan-2-ol

Long term exposure limit (8 hours) (ppm): 400

Long term exposure limit (8 hours) (mg/m³): 999

Short term exposure limit (15 minutes) (ppm): 500

Short term exposure limit (15 minutes) (mg/m³): 1250

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677 The Stationery Office 2002.
EH40/2005 Workplace exposure limits (Fourth Edition 2020)

DNEL

Product/substance	1-methoxypropan-2-ol
DNEL	3,3 mg/kg
Route of exposure	Oral
Duration	Long term – Systemic effects - General population

Product/substance	1-methoxypropan-2-ol
DNEL	18,1 mg/kg
Route of exposure	Dermal
Duration	Long term – Systemic effects - General population

Product/substance	1-methoxypropan-2-ol
DNEL	43,9 mg/m ³
Route of exposure	Inhalation
Duration	Long term – Systemic effects - General population

Product/substance	1-methoxypropan-2-ol
DNEL	50,6 mg/kg
Route of exposure	Dermal
Duration	Long term – Systemic effects - Workers

Product/substance	1-methoxypropan-2-ol
DNEL	369 mg/m ³
Route of exposure	Inhalation
Duration	Long term – Systemic effects - Workers

Product/substance	1-methoxypropan-2-ol
DNEL	553,5 mg/m ³
Route of exposure	Inhalation
Duration	Short term – Local effects - Workers

Product/substance	ethanol
DNEL	950 mg/m ³
Route of exposure	Inhalation
Duration	Long term – Systemic effects - Workers

Product/substance	ethanol
DNEL	1900 mg/m ³
Route of exposure	Inhalation
Duration	Short term – Local effects - Workers

Product/substance	ethanol
DNEL	343 mg/kg legemsvægt pr. dag
Route of exposure	Dermal
Duration	Long term – Systemic effects - Workers

Product/substance	ethanol
DNEL	114 mg/m ³
Route of exposure	Inhalation

According to EC-Regulation 1907/2006 (REACH), annex II, as implemented by EC-Regulation 2015/830

Duration	Long term – Systemic effects - General population
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Product/substance	ethanol
DNEL	950 mg/m ³

Route of exposure	Inhalation
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Duration	Short term – Local effects - General population
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Product/substance	ethanol
DNEL	206 mg/kg legemsvægt pr. dag

Route of exposure	Dermal
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Duration	Long term – Systemic effects - General population
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Product/substance	ethanol
DNEL	87 mg/kg legemsvægt pr. dag

Route of exposure	Oral
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Duration	Long term – Systemic effects - General population
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Product/substance	appelsin, sød, ekstrakt
DNEL	4,44 mg/kg bw/day

Route of exposure	Oral
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Duration	Long term – Systemic effects - General population
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Product/substance	appelsin, sød, ekstrakt
DNEL	185,8 µg/cm ²

Route of exposure	Dermal
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Duration	Short term – Local effects - Workers
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Product/substance	appelsin, sød, ekstrakt
DNEL	8,89 mg/kg bw/day

Route of exposure	Dermal
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Duration	Long term – Systemic effects - Workers
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Product/substance	appelsin, sød, ekstrakt
DNEL	31,1 mg/m ³

Route of exposure	Inhalation
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Duration	Long term – Systemic effects - Workers
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Product/substance	appelsin, sød, ekstrakt
DNEL	92,9 µg/cm ²

Route of exposure	Dermal
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Duration	Short term – Local effects - General population
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Product/substance	appelsin, sød, ekstrakt
DNEL	4,44 mg/kg bw/day

Route of exposure	Dermal
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Duration	Long term – Systemic effects - General population
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Product/substance	appelsin, sød, ekstrakt
DNEL	7,78 mg/m ³

Route of exposure	Inhalation
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Duration	Long term – Systemic effects - General population
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According to EC-Regulation 1907/2006 (REACH), annex II, as implemented by EC-Regulation 2015/830

Product/substance	Propan-2-ol
DNEL	888 mg/kg bw/dag
Route of exposure	Dermal
Duration	Long term – Systemic effects - Workers
Product/substance	Propan-2-ol
DNEL	500 mg7m3
Route of exposure	Inhalation
Duration	Long term – Systemic effects - Workers
Product/substance	Propan-2-ol
DNEL	319mg/kg bw/dag
Route of exposure	Dermal
Duration	Long term – Systemic effects - General population
Product/substance	Propan-2-ol
DNEL	89mg/m3
Route of exposure	Inhalation
Duration	Long term – Systemic effects - General population
Product/substance	Propan-2-ol
DNEL	26mg/kg bw/dag
Route of exposure	Oral
Duration	Long term – Systemic effects - General population

PNEC

Product/substance	1-methoxypropan-2-ol
PNEC	100 mg/l
Route of exposure	Sewage treatment plant
Duration of Exposure	
Product/substance	1-methoxypropan-2-ol
PNEC	2,47 mg/kg
Route of exposure	Soil
Duration of Exposure	
Product/substance	1-methoxypropan-2-ol
PNEC	4,17 mg/kg
Route of exposure	Marine water sediment
Duration of Exposure	
Product/substance	1-methoxypropan-2-ol
PNEC	41,6 mg/kg
Route of exposure	Freshwater sediment
Duration of Exposure	
Product/substance	1-methoxypropan-2-ol
PNEC	10 mg/l
Route of exposure	Freshwater
Duration of Exposure	

According to EC-Regulation 1907/2006 (REACH), annex II, as implemented by EC-Regulation 2015/830

Product/substance ethanol
 PNEC 0,96 mg/l
 Route of exposure Freshwater
 Duration of Exposure

Product/substance ethanol
 PNEC 0,79 mg/l
 Route of exposure Marine water
 Duration of Exposure

Product/substance ethanol
 PNEC 2,75 mg/l
 Route of exposure Intermittent release
 Duration of Exposure

Product/substance ethanol
 PNEC 580 mg/l
 Route of exposure Sewage treatment plant
 Duration of Exposure

Product/substance ethanol
 PNEC 3,6 mg/kg
 Route of exposure Freshwater sediment
 Duration of Exposure

Product/substance ethanol
 PNEC 2,9 mg/kg
 Route of exposure Marine water sediment
 Duration of Exposure

Product/substance ethanol
 PNEC 0,63 mg/kg
 Route of exposure Soil
 Duration of Exposure

Product/substance appelsin, sød, ekstrakt
 PNEC 0,261 mg/kg
 Route of exposure Soil
 Duration of Exposure

Product/substance appelsin, sød, ekstrakt
 PNEC 0,13 mg/kg
 Route of exposure Marine water sediment
 Duration of Exposure

Product/substance appelsin, sød, ekstrakt
 PNEC 1,3mg/kg
 Route of exposure Freshwater sediment
 Duration of Exposure

Product/substance appelsin, sød, ekstrakt

According to EC-Regulation 1907/2006 (REACH), annex II, as implemented by EC-Regulation 2015/830

PNEC	2,1mg/l
Route of exposure	Sewage treatment plant
Duration of Exposure	

Product/substance	appelsin, sød, ekstrakt
PNEC	5,77µg/l
Route of exposure	Intermittent release
Duration of Exposure	

Product/substance	appelsin, sød, ekstrakt
PNEC	0,54 µg/l
Route of exposure	Marine water
Duration of Exposure	

Product/substance	appelsin, sød, ekstrakt
PNEC	5,4µg/l
Route of exposure	Freshwater
Duration of Exposure	

Product/substance	Propan-2-ol
PNEC	552mg/kg
Route of exposure	Marine water sediment
Duration of Exposure	

Product/substance	Propan-2-ol
PNEC	140,9 mg/l
Route of exposure	Freshwater
Duration of Exposure	

Product/substance	Propan-2-ol
PNEC	28 mg/kg
Route of exposure	Soil
Duration of Exposure	

Product/substance	Propan-2-ol
PNEC	140,9 mg/l
Route of exposure	Marine water
Duration of Exposure	

Product/substance	Propan-2-ol
PNEC	140,9 mg/l
Route of exposure	Intermittent release
Duration of Exposure	

Product/substance	Propan-2-ol
PNEC	251 mg/l
Route of exposure	Sewage treatment plant
Duration of Exposure	

Product/substance	Propan-2-ol
PNEC	552 mg/kg
Route of exposure	Freshwater sediment

Duration of Exposure

8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios

There are no exposure scenarios implemented for this product.

Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

Appropriate technical measures

Airborne gas and dust concentrations must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure emergency eyewash and -showers are clearly marked.

Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.

Measures to avoid environmental exposure

Keep damming materials near the workplace. If possible, collect spillage during work.

Individual protection measures, such as personal protective equipment

Generally

Use only CE marked protective equipment.

Respiratory Equipment

Work situation	Type	Class	Colour	Standards
When developing vapour, use respiratory protection with approved filter	Normally, personal respiratory equipment is not necessary			

Skin protection

Work situation	Recommended	Type/Category	Standards
	Dedicated work clothing should be worn	-	-



▼ Hand protection

Work situation	Material	Glove thickness (mm)	Breakthrough time (min.)	Standards
	Nitrile	0,11	> 480	EN374-2, EN374-3, EN388



Eye protection

Work situation	Type	Standards
	Safety glasses with side shields.	EN166



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form

Liquid

Colour

Clear

Odour

Sourish

Odour threshold (ppm)

Testing not relevant or not possible due to nature of the product.

pH

Testing not relevant or not possible due to nature of the product.

Density (g/cm³)

0.86

Viscosity

Testing not relevant or not possible due to nature of the product.

Phase changes

Melting point (°C)

Testing not relevant or not possible due to nature of the product.

Boiling point (°C)

Testing not relevant or not possible due to nature of the product.

Vapour pressure

Testing not relevant or not possible due to nature of the product.

Vapour density

Testing not relevant or not possible due to nature of the product.

Decomposition temperature (°C)

Testing not relevant or not possible due to nature of the product.

Evaporation rate (n-butylacetate = 100)

Data on fire and explosion hazards

Flash point (°C)

13.00 °C

Ignition (°C)

Testing not relevant or not possible due to nature of the product.

Auto flammability (°C)

Testing not relevant or not possible due to nature of the product.

Explosion limits (% v/v)

Testing not relevant or not possible due to nature of the product.

Explosive properties

Testing not relevant or not possible due to nature of the product.

Oxidizing properties

Testing not relevant or not possible due to nature of the product.

Solubility

Solubility in water

Testing not relevant or not possible due to nature of the product.

n-octanol/water coefficient

Testing not relevant or not possible due to nature of the product.

Solubility in fat (g/L)

Testing not relevant or not possible due to nature of the product.

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

10.3. Possibility of hazardous reactions

No special

10.4. Conditions to avoid

Avoid static electricity.

Do not expose to any forms of heat (e.g. solar radiation). May lead to excess pressure.

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Product/substance	1-methoxypropan-2-ol
Test method	
Species	Rat
Route of exposure	Oral
Test	LD50
Result	>2000-<=5000mg/kg ·
Other information	

Product/substance	1-methoxypropan-2-ol
Test method	
Species	Rat
Route of exposure	Dermal
Test	LD50
Result	>5000mg/kg ·
Other information	

Product/substance	ethanol
Test method	
Species	Rat
Route of exposure	Oral
Test	LD50
Result	10470 mg/kg ·
Other information	

Product/substance	ethanol
Test method	
Species	Rabbit
Route of exposure	Dermal
Test	LD50
Result	>17100 mg/kg ·
Other information	

Product/substance	ethanol
Test method	
Species	Rat
Route of exposure	Inhalation

According to EC-Regulation 1907/2006 (REACH), annex II, as implemented by EC-Regulation 2015/830

Test LC50
 Result 124,7 mg/l ·
 Other information

Product/substance appelsin, sød, ekstrakt
 Test method
 Species Rat
 Route of exposure Oral
 Test LD50
 Result 5000 mg/kg ·
 Other information

Product/substance appelsin, sød, ekstrakt
 Test method
 Species Rabbit
 Route of exposure Dermal
 Test LD50
 Result >5000 mg/kg ·
 Other information

Product/substance Propan-2-ol
 Test method
 Species Rabbit
 Route of exposure Dermal
 Test LD50
 Result >2000 mg/kg ·
 Other information

Product/substance Propan-2-ol
 Test method
 Species Rat
 Route of exposure Oral
 Test LD50
 Result 5840 mg/kg ·
 Other information

Product/substance Propan-2-ol
 Test method
 Species Rat
 Route of exposure Inhalation
 Test LC50
 Result 66,1 mg/l 4 h ·
 Other information

Product/substance Propan-2-ol
 Test method
 Species Rat
 Route of exposure Inhalation
 Test LC50
 Result 47,5 mg/l 8 h ·
 Other information

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory sensitisation

Based on available data, the classification criteria are not met.

Skin sensitisation

May cause an allergic skin reaction.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

May be fatal if swallowed and enters airways.

Long term effects

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

Neurotoxic effects: This product contains organic solvents, which may cause adverse effects to the nervous system. Symptoms of neurotoxicity include: loss of appetite, headache, dizziness, ringing in ears, tingling sensations of skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer and may result in an increased absorption potential of other hazardous substances at the area of exposure.

Other information

ethanol has been classified by IARC as a group 1 carcinogen.

Propan-2-ol has been classified by IARC as a group 3 carcinogen.

SECTION 12: Ecological information

12.1. Toxicity

Product/substance	1-methoxypropan-2-ol
Test method	
Species	Fish
Compartment	
Duration	No data available.
Test	LC50
Result	>100 mg/l ·
Other information	

Product/substance	1-methoxypropan-2-ol
Test method	
Species	Algae
Compartment	
Duration	No data available.
Test	EC50
Result	>100 mg/l ·
Other information	

According to EC-Regulation 1907/2006 (REACH), annex II, as implemented by EC-Regulation 2015/830

Product/substance	1-methoxypropan-2-ol
Test method	
Species	Daphnia
Compartment	
Duration	No data available.
Test	EC50
Result	>100 mg/l ·
Other information	

Product/substance	ethanol
Test method	
Species	Fish
Compartment	
Duration	48 hours
Test	LC50
Result	8150 mg/l ·
Other information	

Product/substance	ethanol
Test method	
Species	Fish
Compartment	
Duration	96 hours
Test	LC50
Result	1100 mg/l ·
Other information	

Product/substance	ethanol
Test method	
Species	Daphnia
Compartment	
Duration	48 hours
Test	EC50
Result	9268-14221 mg/l ·
Other information	

Product/substance	ethanol
Test method	
Species	Algae
Compartment	
Duration	7 days
Test	EC0
Result	5000 mg/l ·
Other information	

Product/substance	ethanol
Test method	
Species	Crustacean
Compartment	
Duration	16 hours
Test	EC0
Result	6500 mg/l ·

Other information

Product/substance appelsin, sød, ekstrakt
 Test method
 Species Fish
 Compartment
 Duration 96 hours
 Test LC50
 Result 5,65 mg/l ·
 Other information

Product/substance appelsin, sød, ekstrakt
 Test method
 Species Algae
 Compartment
 Duration 72 hours
 Test EC50
 Result 150 mg/l ·
 Other information

Product/substance appelsin, sød, ekstrakt
 Test method
 Species Daphnia
 Compartment
 Duration 48 hours
 Test EC50
 Result 1,1 mg/l ·
 Other information

Product/substance Propan-2-ol
 Test method
 Species Algae
 Compartment
 Duration 8 days
 Test NOEC
 Result >1800 mg/l ·
 Other information

Product/substance Propan-2-ol
 Test method
 Species Fish
 Compartment
 Duration 96 hours
 Test LC50
 Result 8970-9280 mg/l ·
 Other information

Product/substance Propan-2-ol
 Test method
 Species Daphnia
 Compartment
 Duration 24 hours

According to EC-Regulation 1907/2006 (REACH), annex II, as implemented by EC-Regulation 2015/830

Test	EC50
Result	9714 mg/l ·
Other information	

Product/substance	Propan-2-ol
Test method	
Species	Crustacean
Compartment	
Duration	18 hours
Test	EC10
Result	5175 mg/l ·
Other information	

Product/substance	Propan-2-ol
Test method	
Species	Crustacean
Compartment	
Duration	No data available.
Test	EC50
Result	>1000mg/l ·
Other information	

12.2. Persistence and degradability

Product/substance	1-methoxypropan-2-ol
Biodegradable	Yes
Test method	
Result	

Product/substance	ethanol
Biodegradable	Yes
Test method	
Result	

Product/substance	appelsin, sød, ekstrakt
Biodegradable	Yes
Test method	OECD 301 D
Result	>75%

Product/substance	Propan-2-ol
Biodegradable	Yes
Test method	OECD 301 E
Result	95%

12.3. Bioaccumulative potential

Product/substance	1-methoxypropan-2-ol
Test method	
Potential bioaccumulation	No
LogPow	0,3700
BCF	No data available
Other information	

Product/substance	ethanol
Test method	
Potential bioaccumulation	No
LogPow	No data available
BCF	No data available
Other information	

Product/substance	appelsin, sød, ekstrakt
Test method	
Potential bioaccumulation	No data available
LogPow	No data available
BCF	361
Other information	

Product/substance	Propan-2-ol
Test method	
Potential bioaccumulation	No
LogPow	No data available
BCF	No data available
Other information	

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

12.6. Other adverse effects

This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms.

This product contains substances, which may cause adverse long-term effects to the aquatic environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

To the extent the material has not been subject to regular tests of peroxide formation the waste shall be treated as explosive waste.

Product is covered by the regulations on hazardous waste.

HP 3 - Flammable

HP 4 - Irritant (skin irritation and eye damage)

HP 7 - Carcinogenic

HP 13 - Sensitising

Avoid discharge to lakes, streams, sewers, etc.

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

Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

EWC code

16 05 08* Discarded organic chemicals consisting of or containing dangerous substances

Specific labelling

Not applicable

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: Transport information

14.1 - 14.4

This product is within scope of the regulations of transport of dangerous goods.

ADR/RID

UN- or ID number	UN proper shipping name	Labels	PG	Tunnel restriction code
2319	TERPENE HYDROCARBONS, N.O.S. (Bitter Orange Oil)	3	III	3 (D/E)

IMDG

UN- or ID number	UN proper shipping name	Labels	PG	EmS
2319	TERPENE HYDROCARBONS, N.O.S. (Bitter Orange Oil)	3	III	F-E, S-D

"MARINE POLLUTANT"

No

IATA

UN- or ID number	UN proper shipping name	Labels	PG
2319	TERPENE HYDROCARBONS, N.O.S. (Bitter Orange Oil)	3	III

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No data available

SECTION 15: Regulatory information

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

Restrictions for application

Restricted to professional users.

People under the age of 18 shall not be exposed to this product.

Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

Demands for specific education

No specific requirements

SEVESO - Categories / dangerous substances

P5c - FLAMMABLE LIQUIDS, Qualifying quantity (lower-tier): 5.000 tonnes / (upper-tier): 50.000 tonnes

Additional information

Not applicable

Sources

The Management of Health and Safety at Work Regulations 1999

The Health and Safety at Work etc. Act 1974 Regulations 2013.

Control of Major Accident Hazards (COMAH) Regulations 2015.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives

67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (CLP).
Regulation (EC) 1907/2006 (REACH).

15.2. Chemical safety assessment

No

SECTION 16: Other information

▼ Full text of H-phrases as mentioned in section 3

H226, Flammable liquid and vapour.
H225, Highly flammable liquid and vapour.
H319, Causes serious eye irritation.
H304, May be fatal if swallowed and enters airways.
H315, Causes skin irritation.
H317, May cause an allergic skin reaction.
H411, Toxic to aquatic life with long lasting effects.
H336, May cause drowsiness or dizziness.

The full text of identified uses as mentioned in section 1

LCS "PW" = Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
PROC19 = Hand-mixing with intimate contact and only PPE available
PC24 = Lubricants, Greases and Release Products
ERC8a = Wide dispersive indoor use of processing aids in open systems

Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
CAS = Chemical Abstracts Service
CE = Conformité Européenne
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
CSA = Chemical Safety Assessment
CSR = Chemical Safety Report
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EINECS = European Inventory of Existing Commercial chemical Substances
ES = Exposure Scenario
EUH statement = CLP-specific Hazard statement
EWC = European Waste Catalogue
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IARC = International Agency for Research on Cancer (IARC)
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
OECD = Organisation for Economic Co-operation and Development
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN = REACH Registration Number
SCL = A specific concentration limit.
SVHC = Substances of Very High Concern
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
STOT-SE = Specific Target Organ Toxicity - Single Exposure
TWA = Time weighted average

UN = United Nations

UVCB = Complex hydrocarbon substance

VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

Additional information

The classification of the substance/mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP)

The classification of the substance/mixture in regard of physical hazards has been based on experimental data.

The safety data sheet is validated by

LT

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: GB-en