

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 2/21/2024 Version: 1.0

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

1.1. Product identifier

Product form	: Substance (UVCB)
Substance name	: EO Juniper berry
IUPAC name	: Juniper, Juniperus communis, ext.
EC-No.	: 283-268-3
CAS-No.	: 84603-69-0
REACH registration No.	: 01-2120110803-69
Product code	: 20134
Product group	: Trade product

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

1.2.1. Relevant identified uses

Intended for general public Main use category Use of the substance/mixture

Professional use,Consumer useFragrance raw material

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

De Hekserij Spoorstraat 57 8271 RG IJsselmuiden Nederland www.hekserij.nl

1.4. Emergency telephone number

No additional information available

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/200	8 [CLP]
Flammable liquids, Category 3	H226
Skin corrosion/irritation, Category 2	H315
Skin sensitisation, Category 1	H317
Aspiration hazard, Category 1	H304
Hazardous to the aquatic environment – Chronic Hazard,	H410
Category 1	
Full text of H- and EUH-statements: see section 16	

Adverse physicochemical, human health and environmental effects

Flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. May be fatal if swallowed and enters airways. Very toxic to aquatic life with long lasting effects.

2.2. Label elements



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Hazard statements (CLP)	 H226 - Flammable liquid and vapour. H304 - May be fatal if swallowed and enters airways. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H410 - Very toxic to aquatic life with long lasting effects.
Precautionary statements (CLP)	 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 - Keep container tightly closed. P261 - Avoid breathing fume, mist, spray, vapours. P280 - Wear protective gloves, face protection. P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER, a doctor. P331 - Do NOT induce vomiting. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P240 - Ground and bond container and receiving equipment. P391 - Collect spillage. P403+P235 - Store in a well-ventilated place. Keep cool. P405 - Store locked up. P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

SECTION 3: Composition/i	nformation on ingredients		
3.1. Substances			
Substance type Name CAS-No. EC-No.	: UVCB : EO Juniper berry : 84603-69-0 : 283-268-3		
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008

		70	Regulation (EC) No. 1272/2008 [CLP]
EO Juniper berry	CAS-No.: 84603-69-0 EC-No.: 283-268-3 REACH-no: 01-2120110803- 69	100	See section 2.1
Pinene alpha	CAS-No.: 80-56-8 EC-No.: 201-291-9	20.001 – 50	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304
Myrcene	CAS-No.: 123-35-3 EC-No.: 204-622-5	20.001 – 50	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Sabinene	CAS-No.: 3387-41-5 EC-No.: 222-212-4	10.001 – 20	Acute Tox. 4 (Oral), H302
Pinene beta	CAS-No.: 127-91-3 EC-No.: 204-872-5	1.001 – 5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Limonene D- (nat)	CAS-No.: 5989-27-5 EC-No.: 227-813-5 EC Index-No.: 601-096-00-2	1.001 – 5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
4-Carvomenthenol	CAS-No.: 562-74-3 EC-No.: 209-235-5	1.001 – 5	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 3, H412
Terpinolene	CAS-No.: 586-62-9 EC-No.: 209-578-0	1.001 – 5	Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Caryophyllene beta	CAS-No.: 87-44-5 EC-No.: 201-746-1	1.001 – 5	Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
gamma Terpinene	CAS-No.: 99-85-4 EC-No.: 202-794-6	1.001 – 5	Flam. Liq. 3, H226 Repr. 2, H361 Aquatic Chronic 2, H411
p-mentha-1(7),2-diene	CAS-No.: 555-10-2 EC-No.: 209-081-9	1.001 – 5	Flam. Liq. 3, H226 Asp. Tox. 1, H304
Terpinyl acetate	CAS-No.: 8007-35-0 EC-No.: 232-357-5	1.001 – 5	Aquatic Chronic 2, H411
p-Cymene	CAS-No.: 99-87-6 EC-No.: 202-796-7 EC Index-No.: 601-094-00-1	1.001 – 5	Flam. Liq. 3, H226 Acute Tox. 3 (Inhalation), H331 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Terpinene alpha	CAS-No.: 99-86-5 EC-No.: 202-795-1 EC Index-No.: 601-095-00-7	1.001 – 5	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Linalool	CAS-No.: 78-70-6 EC-No.: 201-134-4 EC Index-No.: 603-235-00-2 REACH-no: 01-2119474016- 42	0.101 – 1	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317
Camphene	CAS-No.: 79-92-5 EC-No.: 201-234-8	0.101 – 1	Flam. Sol. 1, H228 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
delta-3-carene	CAS-No.: 13466-78-9 EC-No.: 236-719-3	0.101 – 1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304
alpha Cedrene	CAS-No.: 469-61-4 EC-No.: 207-418-4	0.101 – 1	Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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Name	Product identifier		Classification according to Regulation (EC) No. 1272/2008 [CLP]
Longifolene	CAS-No.: 475-20-7 EC-No.: 207-491-2	0.01 – 0.1	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H- and EUH-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general First-aid measures after inhalation First-aid measures after skin contact	 Call a physician immediately. Remove person to fresh air and keep comfortable for breathing. Rinse skin with water/shower. Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact First-aid measures after ingestion	 Rinse eyes with water as a precaution. Do not induce vomiting. Call a physician immediately.
4.2. Most important symptoms and effect	s, both acute and delayed
Symptoms/effects after inhalation	: Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.
Symptoms/effects after skin contact Symptoms/effects after eye contact Symptoms/effects after ingestion	 Irritation. May cause an allergic skin reaction. None under normal conditions. Risk of lung oedema.

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

Treat symptomatically.

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media Unsuitable extinguishing media	Water spray. Dry powder. Foam. Carbon dioxide.Do not use a heavy water stream.
5.2. Special hazards arising from the subst	tance or mixture
Fire hazard Explosion hazard Hazardous decomposition products in case of fire	 Flammable liquid and vapour. No direct explosion hazard. Toxic fumes may be released.
5.3. Advice for firefighters	
Firefighting instructions Protection during firefighting	 Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

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SECTION 6: Accidental release measu	res
6.1. Personal precautions, protective equip	oment and emergency procedures
General measures	: Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.
6.1.1. For non-emergency personnel	
Protective equipment Emergency procedures	 Wear recommended personal protective equipment. Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.
6.1.2. For emergency responders	
Protective equipment Emergency procedures	 Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". Evacuate unnecessary personnel. Stop leak if safe to do so.
Emergency procedures	. Evacuate unnecessary personner. Stop leak it sale to do so.
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for containment	and cleaning up
For containment	: Collect spillage. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.
Methods for cleaning up	: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
For further information refer to section 13.	

SECTION 7: Handling and storage	9
7.1. Precautions for safe handling	
Additional hazards when processed Precautions for safe handling Hygiene measures	 Not expected to present a significant hazard under anticipated conditions of normal use. Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Wash contaminated clothing before reuse. Contaminated work clothing should not be
nygiene measures	allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, inclu	uding any incompatibilities
Technical measures Storage conditions Packaging materials	 Ground/bond container and receiving equipment. Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up. Store always product in container of same material as original container.
7.3. Specific end use(s)	

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

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8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment:

Wear recommended personal protective equipment.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection: Safety glasses

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection: Protective gloves

8.2.2.3. Respiratory protection

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and	chemical properties
9.1. Information on basic phy	vsical and chemical properties
Physical state	: Liquid
Colour	: Colourless - pale yellow.
Odour	Not available
Odour threshold	: Not available
Melting point	: <-20 °C
Freezing point	: Not available
Boiling point	: 171.1 °C Atm. press.: 101,325 kPa
Flammability	: Flammable liquid and vapour.

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: Not available
: Not available
: 41 °C NFT 60-103 CC
: Not available
: 0.8582 Type: 'relative density' Temp.: 20 °C
: Not available
: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable liquid and vapour.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 Acute toxicity (oral) : Not classified Acute toxicity (dermal) : Not classified Acute toxicity (inhalation) : Not classified EO Juniper berry (84603-69-0) Image: Source and the second and t

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Pinene alpha (80-56-8)		
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal))	
Myrcene (123-35-3)		
LD50 oral rat	> 11390 mg/kg bodyweight Animal: rat	
LD50 oral	> 3380 mg/kg bodyweight Animal: mouse	
LD50 dermal rabbit	> 5000 mg/l Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)	
Sabinene (3387-41-5)		
LD50 oral rat	300 – 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method)	
Limonene D- (nat) (5989-27-5)		
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method)	
4-Carvomenthenol (562-74-3)		
LD50 oral rat	1300 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)	
LD50 dermal rabbit	2500 – 5000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Remarks on results: other:	
Terpinolene (586-62-9)		
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method)	
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)	
Caryophyllene beta (87-44-5)		
LD50 oral	> 5000 mg/kg bodyweight Animal: mouse, Animal sex: male, Remarks on results: not determinable due to absence of adverse toxic effects	
gamma Terpinene (99-85-4)		
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method)	
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)	
p-Cymene (99-87-6)		
LD50 dermal rabbit	> 5000 mg/kg bodyweight Animal: rabbit, Guideline: other:	
Terpinene alpha (99-86-5)		
LD50 dermal rat	 > 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) 	
Linalool (78-70-6)		
LD50 oral rat	2790 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Remarks on results: other:, 95% CL: 2440 - 3180	
LD50 dermal rabbit	5610 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), 95% CL: 3578 - 8374	
Camphene (79-92-5)		
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit	

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Longifolene (475-20-7)			
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)		
Skin corrosion/irritation :	Causes skin irritation.		
4-Carvomenthenol (562-74-3)			
рН	6.8 – 7.1 Temp.: 20 °C		
Serious eye damage/irritation :	Not classified		
4-Carvomenthenol (562-74-3)			
рН	6.8 – 7.1 Temp.: 20 °C		
Respiratory or skin sensitisation :	May cause an allergic skin reaction.		
Germ cell mutagenicity :	Not classified		
Carcinogenicity :	Not classified		
Reproductive toxicity :	Not classified		
gamma Terpinene (99-85-4)			
NOAEL (animal/male, F1)	250 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)		
NOAEL (animal/female, F1)	100 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)		
STOT-single exposure :	Not classified		
STOT-repeated exposure :	Not classified		
Myrcene (123-35-3)			
LOAEL (oral, rat, 90 days)	250 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90- Day Oral Toxicity Study in Rodents)		
NOAEL (subchronic, oral, animal/male, 90 days)	500 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)		
NOAEL (subchronic, oral, animal/female, 90 days)	250 mg/kg bodyweight Animal: mouse, Animal sex: female, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)		
Linalool (78-70-6)			
NOAEL (dermal, rat/rabbit, 90 days)	250 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)		
Aspiration hazard :	May be fatal if swallowed and enters airways.		
Linalool (78-70-6)			
Viscosity, kinematic	5191.86 mm²/s		
11.2. Information on other hazards			

No additional information available

SECTION 12: Ecological information		
12.1. Toxicity		
Ecology - general Hazardous to the aquatic environment, short–term (acute)	: Very toxic to aquatic life with long lasting effects.: Not classified	
Hazardous to the aquatic environment, long–term (chronic)	: Very toxic to aquatic life with long lasting effects.	

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Pinene alpha (80-56-8)				
LC50 - Fish [1] 0.303 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio				
EC50 - Crustacea [1]	0.475 mg/l Test organisms (species): Daphnia magna			
Myrcene (123-35-3)				
EC50 - Crustacea [1]	1.47 mg/l Test organisms (species): Daphnia magna			
EC50 72h - Algae [1]	0.342 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)			
EC50 72h - Algae [2]	0.31 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)			
Sabinene (3387-41-5)				
EC50 - Crustacea [1]	≈ 3960 mg/l Test organisms (species): Daphnia magna			
EC50 72h - Algae [1]	> 1000 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)			
Limonene D- (nat) (5989-27-5)				
LC50 - Fish [1]	720 μg/l Test organisms (species): Pimephales promelas			
LC50 - Fish [2]	702 μg/l Test organisms (species): Pimephales promelas			
EC50 - Crustacea [1]	0.307 mg/l Test organisms (species): Daphnia magna			
EC50 - Crustacea [2]	0.51 mg/l Test organisms (species): Daphnia magna			
EC50 72h - Algae [1]	0.32 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)			
EC50 72h - Algae [2]	0.214 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)			
4-Carvomenthenol (562-74-3)				
LC50 - Fish [1] 15.6 mg/l Test organisms (species):				
EC50 - Other aquatic organisms [1]	26.6 mg/l Test organisms (species):			
Terpinolene (586-62-9)				
LC50 - Fish [1]	0.805 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)			
EC50 - Crustacea [1]	0.634 mg/l Test organisms (species): Daphnia magna			
EC50 72h - Algae [1]	11.69 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)			
Caryophyllene beta (87-44-5)				
EC50 - Crustacea [1]	> 0.17 mg/l Test organisms (species): Daphnia magna			
EC50 72h - Algae [1]	 > 0.033 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names Raphidocelis subcapitata, Selenastrum capricornutum) 			
gamma Terpinene (99-85-4)				
EC50 - Crustacea [1]	10189 mg/l Test organisms (species): Daphnia magna			
EC50 72h - Algae [1] > 10.82 mg/l Test organisms (species): Scenedesmus capricornutum				
p-Cymene (99-87-6)				
LC50 - Fish [1]	48 mg/l Test organisms (species): Cyprinodon variegatus			
EC50 - Crustacea [1]	3.7 mg/l Test organisms (species): Daphnia magna			
EC50 72h - Algae [1]	4.03 mg/l Test organisms (species): Scenedesmus capricornutum			

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ECG 72h - Algae [2]201 mgl Test organisms (species): Scenedosmus capricomulumTerpinene alpha (98-86-5)LG50 - Fish [1]3150 µgl Test organisms (species): Daphnia magnaEG60 - Custacea [1]7 mgl Test organisms (species): Daphnia magnaEG60 - Custacea [1]50 mgl Test organisms (species): Desmodesmus subspicatus (newious name: Salmo gardner)EG60 - Custacea [1]50 mgl Test organisms (species): Desmodesmus subspicatus (newious name: Scenedosmus subspicatus)EG60 - Custacea [1]50 mgl Test organisms (species): Desmodesmus subspicatus (newious name: Scenedosmus subspicatus)EG60 - Algae [2]16.7 mgl Test organisms (species): Desmodesmus subspicatus (newious name: Scenedosmus subspicatus)EG60 - Scustacea [1]62.7 mgl Test organisms (species): Desmodesmus subspicatus (newious name: Scenedosmus subspicatus)EG60 - Custacea [1]7.2 mgl Test organisms (species): Danio rerio (newious name: Scenedosmus subspicatus)EG60 - Custacea [1]0.72 mgl Test organisms (species): Daphnia magnaEG60 - Custacea [1]17.2 mgl Test organisms (species): Daphnia magnaEG60 - Custacea [1]0.22 mgl Test organisms (species): Daphnia magnaEG60 - Custacea [1]0.21 mgl Test organisms (species): Daphnia magnaEG60 - Custacea [1]0.21 mgl Test organisms (species): Daphnia magnaEG60 - Custacea [1]0.21 mgl Test organisms (species): Daphnia magnaEG60 - Custacea [1]0.21 mgl Test organisms (species): Daphnia magnaEG60 - Custacea [1]0.21 mgl Test organisms (species): Daphnia magnaEG60 - Custacea [1]0.11 mgl Test organisms (species): Daphnia magna <td< th=""><th colspan="3">p-Cymene (99-87-6)</th></td<>	p-Cymene (99-87-6)			
LCS0 - Fish [1] 3150 µgl Test organisms (species): Pimophales promelas ECS0 - Custacce [1] 1.7 mgl Test organisms (species): Daphna magna LInatool (78-70-6) 27.8 mgl Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gaincheri) ECS0 - Fish [1] 27.8 mgl Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gaincheri) ECS0 96h - Algae [1] 29 mgl Test organisms (species): Daphna magna ECS0 96h - Algae [2] 156.7 mgl Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) Camphene (79-92-5) U LCS0 - Fish [1] 0.72 mgl Test organisms (species): Danio rerio (previous name: Sacenadesmus subspicatus) CGS0 - Fish [1] 0.72 mgl Test organisms (species): Danio rerio (previous name: Sacenadesmus subspicatus) CGS0 - Chustacca [1] 0.72 mgl Test organisms (species): Daphna magna ECS0 - Chustacca [1] 0.72 mgl Test organisms (species): Daphna magna ECS0 - Chustacca [1] 0.72 mgl Test organisms (species): Daphna magna ECS0 - Chustacca [1] 0.119 mgl Test organisms (species): Daphna magna ECS0 - Chustacca [1] 0.119 mgl Test organisms (species): Daphna magna ECS0 - Chustacca [1] 0.119 mgl Test organisms (species): Daphna magna ECS0 - Chustacca [1] 0.119 mgl Test organisms (species): Daphna magna ECS0 - Chustacca [1] 0.119 mgl Test organisms (species): Osthina magna ECS0	EC50 72h - Algae [2] 2.01 mg/l Test organisms (species): Scenedesmus capricornutum			
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Persistence and degradability Not rapidly degradable 4-Carvomenthenol (562-74-3) Persistence and degradability Not rapidly degradable Terpinolene (586-62-9)	Persistence and degradability	Not rapidly degradable		
4-Carvomenthenol (562-74-3) Persistence and degradability Not rapidly degradable Terpinolene (586-62-9)	Limonene D- (nat) (5989-27-5)			
Persistence and degradability Not rapidly degradable Terpinolene (586-62-9)	Persistence and degradability	Not rapidly degradable		
Terpinolene (586-62-9)	4-Carvomenthenol (562-74-3)			
	Persistence and degradability	Not rapidly degradable		
Persistence and degradability Not rapidly degradable	Terpinolene (586-62-9)			
	Persistence and degradability	Not rapidly degradable		

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Caryophyllene beta (87-44-5)		
Persistence and degradability	Not rapidly degradable	
gamma Terpinene (99-85-4)		
Persistence and degradability	Not rapidly degradable	
p-mentha-1(7),2-diene (555-10-2)		
Persistence and degradability	Not rapidly degradable	
Terpinyl acetate (8007-35-0)		
Persistence and degradability	Not rapidly degradable	
p-Cymene (99-87-6)		
Persistence and degradability	Not rapidly degradable	
Terpinene alpha (99-86-5)		
Persistence and degradability	Not rapidly degradable	
Linalool (78-70-6)		
Persistence and degradability	Not rapidly degradable	
Camphene (79-92-5)		
Persistence and degradability	Not rapidly degradable	
delta-3-carene (13466-78-9)		
Persistence and degradability	Not rapidly degradable	
alpha Cedrene (469-61-4)		
Persistence and degradability	Not rapidly degradable	
Longifolene (475-20-7)		
Persistence and degradability	Not rapidly degradable	
12.3. Bioaccumulative potential		
Terpinyl acetate (8007-35-0)		
Partition coefficient n-octanol/water (Log Kow)	≥ 4.4	
Linalool (78-70-6)		
Partition coefficient n-octanol/water (Log Pow)	≥ 2.84	
12.4. Mobility in soil		
No additional information available		
12.5. Results of PBT and vPvB assessment		
No additional information available		
12.6. Endocrine disrupting properties		
No additional information available		
12.7. Other adverse effects		
No additional information available		

No additional information available

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SECTION 13: Disposal considerations	;
13.1. Waste treatment methods	
Regional waste regulation	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Disposal must be done according to official regulations.
Additional information	: Flammable vapours may accumulate in the container. Do not re-use empty containers.

SECTION 14: Transport information

ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number or ID n	umber	1	I	
UN 1197	UN 1197	UN 1197	UN 1197	UN 1197
14.2. UN proper shippin	g name			·
EXTRACTS, LIQUID (EO Juniper berry)	EXTRACTS, LIQUID (EO Juniper berry)	Extracts, liquid (EO Juniper berry)	EXTRACTS, LIQUID (EO Juniper berry)	EXTRACTS, LIQUID (EO Juniper berry)
Transport document descr	iption	1		
UN 1197 EXTRACTS, LIQUID (EO Juniper berry), 3, III, (D/E), ENVIRONMENTALLY HAZARDOUS	UN 1197 EXTRACTS, LIQUID (EO Juniper berry), 3, III, MARINE POLLUTANT/ENVIRONME NTALLY HAZARDOUS	UN 1197 Extracts, liquid (EO Juniper berry), 3, III, ENVIRONMENTALLY HAZARDOUS	UN 1197 EXTRACTS, LIQUID (EO Juniper berry), 3, III, ENVIRONMENTALLY HAZARDOUS	UN 1197 EXTRACTS, LIQUID (EO Juniper berry), 3, III, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard o	class(es)	I		
3	3	3	3	3
14.4. Packing group	I	I		
III	III	III	III	III
14.5. Environmental haz	ards	1	1	
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes
No supplementary informatic	on available	1	1	1

14.0.00		Jioouu		
Overland	transp	ort		

Classification code (ADR)	:	F1
Special provisions (ADR)	:	601
Limited quantities (ADR)	:	51
Excepted quantities (ADR)	:	E1
Packing instructions (ADR)	:	P001, IBC03, LP01, R001
Mixed packing provisions (ADR)	:	MP19
Portable tank and bulk container instructions (ADR)	:	T2
Portable tank and bulk container special provisions	:	TP1
(ADR)		
Tank code (ADR)	:	LGBF
Vehicle for tank carriage	:	FL

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Transport category (ADR)	: 3
Special provisions for carriage - Packages (ADR)	: V12
Special provisions for carriage - Operation (ADR)	: S2
Hazard identification number (Kemler No.)	: 30
Orange plates	20
	<u>30</u> 1197
Tunnel restriction code (ADR)	: D/E
Transport by sea	
Special provisions (IMDG)	: 223, 955
Limited quantities (IMDG)	: 5L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P001, LP01
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T2
Tank special provisions (IMDG)	: TP1
EmS-No. (Fire)	: F-E
EmS-No. (Spillage)	: S-D
Stowage category (IMDG)	: A
Properties and observations (IMDG)	: Usually consist of alcoholic solutions. Miscibility with water depends upon the compositio
Air transport	
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y344
PCA limited quantity max net quantity (IATA)	: 10L
PCA packing instructions (IATA)	: 355
PCA max net quantity (IATA)	: 60L
CAO packing instructions (IATA)	: 366
CAO max net quantity (IATA)	: 220L
Special provisions (IATA)	: A3
ERG code (IATA)	: 3L
Inland waterway transport	
Classification code (ADN)	: F1
Special provisions (ADN)	: 601
Limited quantities (ADN)	: 5L
Excepted quantities (ADN)	: E1
Equipment required (ADN)	: PP, EX, A
Ventilation (ADN)	: VE01
Number of blue cones/lights (ADN)	: 0
Rail transport	
Classification code (RID)	: F1
Special provisions (RID)	: 601
Limited quantities (RID)	: 5L
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P001, IBC03, LP01, R001
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T2
Portable tank and bulk container special provisions (RID)	: TP1
Tank codes for RID tanks (RID)	: LGBF
Transport category (RID)	: 3
Special provisions for carriage – Packages (RID)	: W12
Colis express (express parcels) (RID)	: W12 : CE4
Hazard identification number (RID)	: 30
nazaru iuenuncauon number (RID)	. 50

Not applicable

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SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)			
Reference code	Applicable on	Entry title or description	
3(a)	EO Juniper berry ; Myrcene ; Pinene beta ; Limonene D- (nat) ; gamma Terpinene ; p- mentha-1(7),2-diene ; p- Cymene ; Terpinene alpha ; delta-3-carene	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F	
3(b)	EO Juniper berry ; Pinene alpha ; Myrcene ; Sabinene ; Pinene beta ; Limonene D- (nat) ; 4- Carvomenthenol ; Terpinolene ; Caryophyllene beta ; gamma Terpinene ; p- mentha-1(7),2-diene ; p- Cymene ; Terpinene alpha ; Linalool ; delta-3- carene ; alpha Cedrene ; Longifolene	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	
3(c)	EO Juniper berry ; Myrcene ; Limonene D- (nat) ; 4-Carvomenthenol ; Terpinolene ; Caryophyllene beta ; gamma Terpinene ; Terpinyl acetate ; p- Cymene ; Terpinene alpha ; alpha Cedrene ; Longifolene	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	
40.	EO Juniper berry ; Myrcene ; Pinene beta ; Limonene D- (nat) ; gamma Terpinene ; p- mentha-1(7),2-diene ; p- Cymene ; Terpinene alpha ; Camphene ; delta- 3-carene	Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.	

REACH Annex XIV (Authorisation List)

Not listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Not listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Not listed on the PIC list (Regulation EU 649/2012)

POP Regulation (Persistent Organic Pollutants)

Not listed on the POP list (Regulation EU 2019/1021)

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Ozone Regulation (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

Netherlands

SZW-lijst van kankerverwekkende stoffen	: EO Juniper berry is listed
SZW-lijst van mutagene stoffen	: EO Juniper berry is listed
SZW-lijst van reprotoxische stoffen – Borstvoeding	: The substance is not listed
SZW-lijst van reprotoxische stoffen –	: The substance is not listed
Vruchtbaarheid	
SZW-lijst van reprotoxische stoffen – Ontwikkeling	: The substance is not listed

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:		
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ATE	Acute Toxicity Estimate	
BCF	Bioconcentration factor	
BLV	Biological limit value	
BOD	Biochemical oxygen demand (BOD)	
COD	Chemical oxygen demand (COD)	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC-No.	European Community number	
EC50	Median effective concentration	
EN	European Standard	
IARC	International Agency for Research on Cancer	
ΙΑΤΑ	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	

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Abbreviations and acronyms:		
NOEC	No-Observed Effect Concentration	
OECD	Organisation for Economic Co-operation and Development	
OEL	Occupational Exposure Limit	
PBT	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
STP	Sewage treatment plant	
ThOD	Theoretical oxygen demand (ThOD)	
TLM	Median Tolerance Limit	
VOC	Volatile Organic Compounds	
CAS-No.	Chemical Abstract Service number	
N.O.S.	Not Otherwise Specified	
vPvB	Very Persistent and Very Bioaccumulative	
ED	Endocrine disrupting properties	

Full text of H- and EUH-statements:		
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1	
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1	
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2	
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3	
Asp. Tox. 1	Aspiration hazard, Category 1	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Flam. Liq. 3	Flammable liquids, Category 3	
Flam. Sol. 1	Flammable solids, Category 1	
H226	Flammable liquid and vapour.	
H228	Flammable solid.	
H302	Harmful if swallowed.	
H304	May be fatal if swallowed and enters airways.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H319	Causes serious eye irritation.	
H331	Toxic if inhaled.	
H361	Suspected of damaging fertility or the unborn child.	
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.	

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Full text of H- and EUH-statements:		
H412	Harmful to aquatic life with long lasting effects.	
Repr. 2	Reproductive toxicity, Category 2	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
Skin Sens. 1	Skin sensitisation, Category 1	
Skin Sens. 1B	Skin sensitisation, category 1B	

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.