



Safety Data Sheet according to (EC) No 1907/2006 as amended

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TECHNOMELT CLEANER M-O-C SCAND

SDS No. : 44482
V018.1

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

1.1. Product identifier

TECHNOMELT CLEANER M-O-C SCAND
UFI: NTXD-WXAQ-S20M-RJUW

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

Intended use:
Cleaner

1.3. Details of the supplier of the safety data sheet

Henkel Ltd
Adhesives
Wood Lane End
HP2 4RQ Hemel Hempstead

Great Britain

Phone: +44 (1442) 278000

SDSinfo.Adhesive@henkel.com

For Safety Data Sheet updates please visit our website www.mysds.henkel.com or www.henkel-adhesives.com.

1.4. Emergency telephone number

24 Hours Emergency Tel: +44 (0)1442 278497

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (CLP):

Flammable liquids	Category 3
H226 Flammable liquid and vapour.	
Skin irritation	Category 2
H315 Causes skin irritation.	
Skin sensitizer	Category 1
H317 May cause an allergic skin reaction.	
Aspiration hazard	Category 1
H304 May be fatal if swallowed and enters airways.	
Acute hazards to the aquatic environment	Category 1
H400 Very toxic to aquatic life.	
Chronic hazards to the aquatic environment	Category 2
H411 Toxic to aquatic life with long lasting effects.	

2.2. Label elements

Label elements (CLP):

Hazard pictogram:**Contains**

Limonene, D-
 Pin-2(3)-ene
 4-isopropenylcyclohex-1-enecarbaldehyde
 Pin-2(10)-ene
 Terpinolene
 3,7,7-trimethylbicyclo[4.1.0]hept-3-ene
 Geraniol
 Linalool

Signal word:

Danger

Hazard statement:

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 statement:
Prevention**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
 No smoking.
 P261 Avoid breathing vapors.
 P273 Avoid release to the environment.
 P280 Wear protective gloves.

**Precautionary statement:
Response**

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/...
 P331 Do NOT induce vomiting.
 P370+P378 In case of fire: Use CO₂, dry chemical, or foam for extinction.

**Precautionary statement:
Storage**

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

2.3. Other hazards

Solvents contained in the product evaporate during processing and their vapors can form explosive/highly inflammable air/vapor mixtures.
 The solvent vapors are heavier than air and may collect in high concentrations at floor level.

Following substances are present in a concentration \geq the concentration limit for depiction in Section 3 and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):

This mixture does not contain any substances in a concentration \geq the concentration limit for depiction in Section 3 that are assessed to be a PBT, vPvB or ED.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Declaration of the ingredients according to CLP (EC) No 1272/2008:

Hazardous components CAS-No. EC Number REACH-Reg. No.	Concentration	Classification	Specific Conc. Limits, M-factors and ATEs	Add. Information
Limonene, D- 5989-27-5 227-813-5 01-2119529223-47	80- < 100 %	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Asp. Tox. 1, H304 Aquatic Chronic 3, H412	M acute = 1	
p-mentha-1,4-diene 99-85-4 202-794-6	0,25- < 2,5 %	Flam. Liq. 3, H226 Asp. Tox. 1, Oral, H304 Repr. 2, H361 Aquatic Chronic 2, H411		
7-Methyl-3-methylenoocta-1,6-diene 123-35-3 204-622-5	0,25- < 2,5 %	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Eye Irrit. 2, H319 Skin Irrit. 2, H315 Aquatic Acute 1, H400 Aquatic Chronic 2, H411	M acute = 1	
Pin-2(3)-ene 80-56-8 201-291-9	0,1- < 1 %	Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin Sens. 1B, H317 Skin Irrit. 2, H315 Acute Tox. 4, Oral, H302	M acute = 1 M chronic = 1	
4-isopropenylcyclohex-1-enecarbaldehyde 2111-75-3 218-302-8	0,1- < 1 %	Skin Sens. 1B, H317	oral:ATE = 2.500 mg/kg	
Pin-2(10)-ene 127-91-3 204-872-5	0,1- < 1 %	Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Flam. Liq. 3, H226 Asp. Tox. 1, Oral, H304 Skin Sens. 1, H317 Skin Irrit. 2, H315	M acute = 1 M chronic = 1	
Terpinolene 586-62-9 209-578-0	0,1- < 1 %	Asp. Tox. 1, Oral, H304 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M acute = 1 M chronic = 1	
p-Cymene 99-87-6 202-796-7	0,1- < 1 %	Flam. Liq. 3, H226 Asp. Tox. 1, Oral, H304 Repr. 2, H361 Aquatic Chronic 2, H411 Acute Tox. 3, Inhalation, H331	inhalation:ATE = 3 mg/l;vapour	
3,7,7-trimethylbicyclo[4.1.0]hept-3-ene 13466-78-9 236-719-3	0,1- < 1 %	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Skin Sens. 1, H317 Acute Tox. 4, Inhalation, H332 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M acute = 1 M chronic = 1	
Geraniol 106-24-1 203-377-1 01-2119552430-49	0,1- < 1 %	Skin Irrit. 2, Dermal, H315 Skin Sens. 1, H317 Eye Dam. 1, H318		
Linalool 78-70-6 201-134-4	0,1- < 1 %	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317		

01-2119474016-42				
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**If no ATE values are displayed, please refer to LD/LC50 values in Section 11.
For full text of the H - statements and other abbreviations see section 16 "Other information".
Declaration of ingredients according to Detergent Regulation 648/2004/EC**

contains	Perfumes
Allergenic fragrance ingredients ≥ 100 ppm:	Limonene, Geraniol, Linalool

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:
Move to fresh air, consult doctor if complaint persists.

Skin contact:
IF ON SKIN: Wash with plenty of soap and water.
In case of adverse health effects seek medical advice.

Eye contact:
Rinse immediately with plenty of running water (for 10 minutes), seek medical attention from a specialist.

Ingestion:
Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.
After ingestion or vomit: danger of product entering the lung.

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

SKIN: Rash, Urticaria.

SKIN: Redness, inflammation.

ASPIRATION: Coughing, shortness of breath, nausea. Delayed effect: bronchopneumonia or pulmonary oedema

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

See section: Description of first aid measures
Small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting may cause bronchopneumonia or pulmonary oedema.
Do not induce vomiting.
Seek medical attention from a specialist.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:
Carbon dioxide, foam, powder

Extinguishing media which must not be used for safety reasons:
Water jet (solvent-containing product).

5.2. Special hazards arising from the substance or mixture

In case of fire toxic gases can be released.

5.3. Advice for firefighters

Wear self-contained breathing apparatus.
Wear protective equipment.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Wear protective equipment.
Avoid contact with skin and eyes.
Keep unprotected persons away.
Danger of slipping on spilled product.

6.2. Environmental precautions

Do not empty into drains / surface water / ground water.
Inform authorities in the event of product spillage to water courses or sewage systems.

6.3. Methods and material for containment and cleaning up

Remove with liquid-absorbing material (sand, peat, sawdust).
Dispose of contaminated material as waste according to Section 13.

6.4. Reference to other sections

See advice in section 8

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Avoid open flames and sources of ignition.
Ground/bond container and receiving equipment.
Use explosion proof electric equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.

Hygiene measures:

Do not eat, drink or smoke while working.
Wash hands before work breaks and after finishing work.
Take off contaminated clothing and wash before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Ensure good ventilation/extraction.
Keep container tightly sealed.
Ensure that storage and workrooms are adequately ventilated.
Store protected from heat influence.

7.3. Specific end use(s)

Cleaner

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Occupational Exposure Limits**

Valid for
Great Britain

None

Occupational Exposure Limits

Valid for
Ireland

None

Predicted No-Effect Concentration (PNEC):

Name on list	Environmental Compartment	Exposure period	Value				Remarks
			mg/l	ppm	mg/kg	others	
p-Cymene 99-87-6	aqua (freshwater)		0,0058 mg/l				
p-Cymene 99-87-6	Freshwater - intermittent		0,058 mg/l				
p-Cymene 99-87-6	aqua (marine water)		0,00058 mg/l				
p-Cymene 99-87-6	Marine water - intermittent		0,0058 mg/l				
p-Cymene 99-87-6	sewage treatment plant (STP)		2 mg/l				
p-Cymene 99-87-6	sediment (freshwater)				2,93 mg/kg		
p-Cymene 99-87-6	sediment (marine water)				0,293 mg/kg		
p-Cymene 99-87-6	Soil				0,582 mg/kg		
p-Cymene 99-87-6	Predator						no potential for bioaccumulation
Dimethyl-2,7-Octadien-6-ol, 2,6- 78-70-6	aqua (freshwater)		0,2 mg/l				
Dimethyl-2,7-Octadien-6-ol, 2,6- 78-70-6	aqua (marine water)		0,02 mg/l				
Dimethyl-2,7-Octadien-6-ol, 2,6- 78-70-6	aqua (intermittent releases)		2 mg/l				
Dimethyl-2,7-Octadien-6-ol, 2,6- 78-70-6	sediment (freshwater)				2,22 mg/kg		
Dimethyl-2,7-Octadien-6-ol, 2,6- 78-70-6	sediment (marine water)				0,222 mg/kg		
Dimethyl-2,7-Octadien-6-ol, 2,6- 78-70-6	Soil				0,327 mg/kg		
Dimethyl-2,7-Octadien-6-ol, 2,6- 78-70-6	sewage treatment plant (STP)		> 10 mg/l				

Derived No-Effect Level (DNEL):

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
Pin-2(3)-ene 80-56-8	Workers	inhalation	Long term exposure - systemic effects		3,8 mg/m ³	
Pin-2(3)-ene 80-56-8	Workers	dermal	Long term exposure - systemic effects		0,54 mg/kg	
Pin-2(3)-ene 80-56-8	General population	inhalation	Long term exposure - systemic effects		0,67 mg/m ³	
Pin-2(3)-ene 80-56-8	General population	dermal	Long term exposure - systemic effects		0,19 mg/kg	
Pin-2(3)-ene 80-56-8	General population	oral	Long term exposure - systemic effects		0,19 mg/kg	
Dimethyl-2,7-Octadien-6-ol, 2,6-78-70-6	Workers	dermal	Acute/short term exposure - systemic effects		5 mg/kg	
Dimethyl-2,7-Octadien-6-ol, 2,6-78-70-6	Workers	inhalation	Acute/short term exposure - systemic effects		16,5 mg/m ³	
Dimethyl-2,7-Octadien-6-ol, 2,6-78-70-6	Workers	dermal	Long term exposure - systemic effects		2,5 mg/kg	
Dimethyl-2,7-Octadien-6-ol, 2,6-78-70-6	Workers	inhalation	Long term exposure - systemic effects		2,8 mg/m ³	
Dimethyl-2,7-Octadien-6-ol, 2,6-78-70-6	General population	inhalation	Acute/short term exposure - systemic effects		4,1 mg/m ³	
Dimethyl-2,7-Octadien-6-ol, 2,6-78-70-6	General population	oral	Acute/short term exposure - systemic effects		1,2 mg/kg	
Dimethyl-2,7-Octadien-6-ol, 2,6-78-70-6	General population	dermal	Acute/short term exposure - systemic effects		2,5 mg/kg	
Dimethyl-2,7-Octadien-6-ol, 2,6-78-70-6	General population	dermal	Long term exposure - systemic effects		1,25 mg/kg	
Dimethyl-2,7-Octadien-6-ol, 2,6-78-70-6	General population	inhalation	Long term exposure - systemic effects		0,7 mg/m ³	
Dimethyl-2,7-Octadien-6-ol, 2,6-78-70-6	General population	oral	Long term exposure - systemic effects		0,2 mg/kg	
Dimethyl-2,7-Octadien-6-ol, 2,6-78-70-6	General population	dermal	Long term exposure - local effects		1,5 mg/cm ²	
Dimethyl-2,7-Octadien-6-ol, 2,6-78-70-6	Workers	dermal	Long term exposure - local effects		3 mg/cm ²	
Dimethyl-2,7-Octadien-6-ol, 2,6-78-70-6	Workers	dermal	Acute/short term exposure - local effects		3 mg/cm ²	
Dimethyl-2,7-Octadien-6-ol, 2,6-78-70-6	General population	dermal	Acute/short term exposure - local effects		1,5 mg/cm ²	

Biological Exposure Indices:
None

8.2. Exposure controls:

Engineering controls:
Ensure good ventilation/extraction.

Respiratory protection:

In case of aerosol formation, we recommend wearing of appropriate respiratory protection equipment with ABEK P2 filter (EN 14387).

This recommendation should be matched to local conditions.

Hand protection:

Chemical-resistant protective gloves (EN 374). Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374): Isobutylene-isoprene rubber (IIR; ≥ 0.7 mm thickness) Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374): Isobutylene-isoprene rubber (IIR; ≥ 0.7 mm thickness) This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

Eye protection:

Goggles which can be tightly sealed.

Protective eye equipment should conform to EN166.

Skin protection:

Wear protective equipment.

Protective clothing that covers arms and legs.

Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Advices to personal protection equipment:

Use only personal protection that's CE-labelled according to Directive 89/686/EEC (Europe) or to Regulation No. 819 of 19 August 1994 (Norway), or equivalent.

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions.

Personal protective equipment should conform to the relevant EN standard.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Delivery form	liquid
Colour	Colourless / Colorless
Odor	characteristic
Physical state	liquid
Solidification temperature	< -50 °C (< -58 °F)
Initial boiling point (1.013 hPa)	173 °C (343.4 °F)no method / method unknown
Flammability	Flammable liquid
Explosive limits	
lower	0,8 %(V); No data available.
upper	6,1 %(V); No data available. Upper/lower explosion limit
Explosive limits	
lower [mass/vol]	0,73 g/m ³
lower	0,7 %(V);
upper [mass/vol]	4,2 g/m ³
upper	6,1 %(V); Upper/lower explosion limit
Flash point	40 - 50 °C (104 - 122 °F); DIN 51755 Closed cup flash point
Auto-ignition temperature	> 300 °C (> 572 °F)
Decomposition temperature	Not applicable, Substance/mixture is not self-reactive, no organic peroxide and does not decompose under foreseen conditions of use
pH	Product is non-polar/aprotic., Not applicable
Viscosity (kinematic) (40 °C (104 °F);)	< 20,5 mm ² /s thixotropic
Solubility (qualitative) (20 °C (68 °F); Solvent: Water)	Not miscible
Partition coefficient: n-octanol/water	Not applicable
Vapour pressure	Mixture < 200 mbar

(20 °C (68 °F)) Vapour pressure	< 500 mbar
(50 °C (122 °F)) Density	0,846 g/cm ³ no method / method unknown
(20 °C (68 °F)) Relative vapour density:	> 1
(20 °C) Particle characteristics	Not applicable Product is a liquid

9.2. Other information

Other information not applicable for this product

SECTION 10: Stability and reactivity

10.1. Reactivity

Oxidizers.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

See section reactivity

10.4. Conditions to avoid

Heat, flames, sparks and other sources of ignition.

10.5. Incompatible materials

See section reactivity.

10.6. Hazardous decomposition products

No decomposition if used according to specifications.

SECTION 11: Toxicological information

General toxicological information:

An allergic reaction cannot be excluded after repeated skin contact.

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

Acute oral toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

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

Hazardous substances CAS-No.	Value type	Value	Species	Method
Limonene, D- 5989-27-5	LD50	> 5.000 mg/kg	rat	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)
p-mentha-1,4-diene 99-85-4	LD50	3.650 mg/kg	rat	not specified
7-Methyl-3- methylenoocta-1,6-diene 123-35-3	LD50	> 5.000 mg/kg	rat	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)
Pin-2(3)-ene 80-56-8	LD50	500 mg/kg	rat	OECD Guideline 423 (Acute Oral toxicity)
4-isopropenylcyclohex-1- enecarbaldehyde 2111-75-3	Acute toxicity estimate (ATE)	2.500 mg/kg		Expert judgement
Pin-2(10)-ene 127-91-3	LD50	> 5.000 mg/kg	rat	Limit Test
Terpinolene 586-62-9	LD50	3.800 mg/kg	rat	not specified
p-Cymene 99-87-6	LD50	4.750 mg/kg	rat	not specified
3,7,7- trimethylbicyclo[4.1.0]he pt-3-ene 13466-78-9	LD50	4.800 mg/kg	rat	not specified
Geraniol 106-24-1	LD50	3.600 mg/kg	rat	not specified
Linalool 78-70-6	LD50	2.790 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)

Acute dermal toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

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

Hazardous substances CAS-No.	Value type	Value	Species	Method
Limonene, D- 5989-27-5	LD50	> 5.000 mg/kg	rabbit	equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity)
p-mentha-1,4-diene 99-85-4	LD50	> 2.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)
7-Methyl-3- methylenoocta-1,6-diene 123-35-3	LD50	> 5.000 mg/kg	rabbit	equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity)
Pin-2(3)-ene 80-56-8	LD50	> 2.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)
Pin-2(10)-ene 127-91-3	LD50	> 5.000 mg/kg	rabbit	Limit Test
Terpinolene 586-62-9	LD50	> 5.000 mg/kg	rabbit	not specified
p-Cymene 99-87-6	LD50	> 5.000 mg/kg	rabbit	not specified
3,7,7- trimethylbicyclo[4.1.0]he pt-3-ene 13466-78-9	LD50	> 5.000 mg/kg	rabbit	not specified
Geraniol 106-24-1	LD50	> 5.000 mg/kg	rabbit	not specified
Linalool 78-70-6	LD50	5.610 mg/kg	rabbit	OECD Guideline 402 (Acute Dermal Toxicity)

Acute inhalative toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

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

Hazardous substances CAS-No.	Value type	Value	Test atmosphere	Exposure time	Species	Method
p-Cymene 99-87-6	Acute toxicity estimate (ATE)	3 mg/l	vapour			Expert judgement

Skin corrosion/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Limonene, D- 5989-27-5	moderately irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
p-mentha-1,4-diene 99-85-4	not irritating	60 min	Human, EpiDerm™ SIT (EPI-200), Reconstructed Human Epidermis (RHE)	OECD Guideline 439 (In Vitro Skin Irritation: Reconstructed Human Epidermis (RHE) Test Method)
7-Methyl-3- methyleneocta-1,6-diene 123-35-3	irritating		human	EPISKIN Method
Pin-2(3)-ene 80-56-8	Category 2 (irritant)		Human, SkinEthic™ RHE, Reconstructed Human Epidermis	other guideline:
p-Cymene 99-87-6	not irritating		Human, EpiDerm™ SIT (EPI-200), Reconstructed Human Epidermis (RHE)	OECD Guideline 439 (In Vitro Skin Irritation: Reconstructed Human Epidermis (RHE) Test Method)
3,7,7- trimethylbicyclo[4.1.0]he pt-3-ene 13466-78-9	irritating	15 min	Human, SkinEthic™ RHE, Reconstructed Human Epidermis	not specified
Geraniol 106-24-1	moderately irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Linalool 78-70-6	irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

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

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Limonene, D- 5989-27-5	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
p-mentha-1,4-diene 99-85-4	not irritating		Human, corneal epithelial model (HCE)	OECD Guideline 492 (Reconstructed Human Cornea-like Epithelium (RhCE) Test Method)
7-Methyl-3- methylenoocta-1,6-diene 123-35-3	Category 2 (irritant)		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Pin-2(3)-ene 80-56-8	not irritating		Reconstructed three dimensional human cornea model (EpiOcular™)	OECD Guideline 492 (Reconstructed Human Cornea-like Epithelium (RhCE) Test Method)
p-Cymene 99-87-6	not irritating		Human, in vitro, reconstituted human corneal model	OECD Guideline 492 (Reconstructed Human Cornea-like Epithelium (RhCE) Test Method)
3,7,7- trimethylbicyclo[4.1.0]he pt-3-ene 13466-78-9	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Geraniol 106-24-1	Category 1 (irreversible effects on the eye)		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Linalool 78-70-6	irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Test type	Species	Method
Limonene, D- 5989-27-5	Sub-Category 1B (sensitising)	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
p-mentha-1,4-diene 99-85-4	negative	Direct peptide reactivity assay (DPRA)	cysteine and lysine, in chemico test	OECD Guideline 442C (Direct Peptide Reactivity Assay (DPRA))
p-mentha-1,4-diene 99-85-4	negative	Activation of keratinocytes	human keratinocytes, in vitro test	OECD Guideline 442D (ARE-Nrf2 Luciferase Test Method)
7-Methyl-3- methylenoocta-1,6-diene 123-35-3	not sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
p-Cymene 99-87-6	not sensitising	Mouse local lymphnode assay (LLNA)	mouse	equivalent or similar to OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
3,7,7- trimethylbicyclo[4.1.0]he pt-3-ene 13466-78-9	sensitising	Patch-Test	guinea pig	Patch Test
Geraniol 106-24-1	sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Linalool 78-70-6	sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)

Germ cell mutagenicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

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

Hazardous substances CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Limonene, D- 5989-27-5	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Limonene, D- 5989-27-5	negative	in vitro mammalian chromosome aberration test	with and without		equivalent or similar to OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Limonene, D- 5989-27-5	negative	mammalian cell gene mutation assay	with and without		equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Limonene, D- 5989-27-5	negative	sister chromatid exchange assay in mammalian cells	with and without		equivalent or similar to OECD Guideline 479 (Genetic Toxicology: In Vitro Sister Chromatid Exchange Assay in Mammalian Cells)
p-mentha-1,4-diene 99-85-4	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
p-mentha-1,4-diene 99-85-4	negative	in vitro mammalian cell micronucleus test	with and without		OECD Guideline 487 (In vitro Mammalian Cell Micronucleus Test)
p-mentha-1,4-diene 99-85-4	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 490 (In Vitro Mammalian Cell Gene Mutation Tests Using the Thymidine Kinase Gene)
7-Methyl-3- methylenoocta-1,6-diene 123-35-3	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay)
7-Methyl-3- methylenoocta-1,6-diene 123-35-3	negative	in vitro mammalian chromosome aberration test	with and without		equivalent or similar to OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
7-Methyl-3- methylenoocta-1,6-diene 123-35-3	negative	mammalian cell gene mutation assay	with and without		equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Pin-2(3)-ene 80-56-8	negative	in vitro mammalian cell micronucleus test	without		OECD Guideline 487 (In vitro Mammalian Cell Micronucleus Test)
Pin-2(3)-ene 80-56-8	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Pin-2(3)-ene 80-56-8	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Pin-2(10)-ene 127-91-3	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		not specified
Pin-2(10)-ene 127-91-3	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		not specified
Pin-2(10)-ene 127-91-3	negative	sister chromatid exchange assay in mammalian cells	without		not specified
p-Cymene 99-87-6	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
p-Cymene 99-87-6	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
p-Cymene 99-87-6	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene

					Mutation Test)
3,7,7-trimethylbicyclo[4.1.0]hept-3-ene 13466-78-9	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
3,7,7-trimethylbicyclo[4.1.0]hept-3-ene 13466-78-9	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
3,7,7-trimethylbicyclo[4.1.0]hept-3-ene 13466-78-9	negative	in vitro mammalian cell micronucleus test	with and without		equivalent or similar to OECD Guideline 487 (In vitro Mammalian Cell Micronucleus Test)
Geraniol 106-24-1	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		Ames Test
Geraniol 106-24-1	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Linalool 78-70-6	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Linalool 78-70-6	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Linalool 78-70-6	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Limonene, D- 5989-27-5	negative	oral: gavage		rat	not specified
7-Methyl-3-methylocta-1,6-diene 123-35-3	negative	oral: gavage		mouse	equivalent or similar to OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Pin-2(3)-ene 80-56-8	negative	inhalation		mouse	equivalent or similar to OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Geraniol 106-24-1	negative	oral: gavage		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Linalool 78-70-6	negative	oral: gavage		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

Carcinogenicity

No data available.

Reproductive toxicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

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

Hazardous substances CAS-No.	Result / Value	Test type	Route of application	Species	Method
Limonene, D- 5989-27-5	NOAEL P 600 mg/kg		oral: gavage	rat	other guideline:
p-mentha-1,4-diene 99-85-4	NOAEL P 100 mg/kg NOAEL F1 100 mg/kg	screening	oral: gavage	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
7-Methyl-3- methyleneocta-1,6-diene 123-35-3	NOAEL P 300 mg/kg NOAEL F1 300 mg/kg	one- generation study	oral: gavage	rat	equivalent or similar to OECD Guideline 415 (One- Generation Reproduction Toxicity Study)
p-Cymene 99-87-6	NOAEL P 50 mg/kg NOAEL F1 50 mg/kg	screening	oral: gavage	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
p-Cymene 99-87-6	NOAEL P 100 mg/kg NOAEL F1 50 mg/kg	screening	oral: gavage	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Geraniol 106-24-1	NOAEL P 1.000 mg/kg NOAEL F1 100 mg/kg	screening	oral: gavage	rat	OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test)
Linalool 78-70-6	NOAEL P 365 mg/kg NOAEL F1 365 mg/kg		oral: gavage	rat	OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test)

STOT-single exposure:

No data available.

STOT-repeated exposure:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

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

Hazardous substances CAS-No.	Result / Value	Route of application	Exposure time / Frequency of treatment	Species	Method
Limonene, D- 5989-27-5	NOAEL 825 mg/kg	oral: gavage	16 d 5 d/w	rat	equivalent or similar to OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)
p-mentha-1,4-diene 99-85-4	NOAEL 250 mg/kg	oral: gavage	28 d daily	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
7-Methyl-3- methyleneocta-1,6-diene 123-35-3	LOAEL 250 mg/kg	oral: gavage	14 w 5 d/w	rat	equivalent or similar to OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Pin-2(3)-ene 80-56-8		inhalation	90 d 6 h/d; 5 d/w	rat	OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)
Pin-2(3)-ene 80-56-8		inhalation	90 d 6 h/d; 5 d/w	rat	OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)
p-Cymene 99-87-6	NOAEL 50 mg/kg	oral: gavage	35 d once daily	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
p-Cymene 99-87-6	NOAEL 100 mg/kg	oral: gavage	63 d once daily	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
3,7,7- trimethylbicyclo[4.1.0]he pt-3-ene 13466-78-9	NOAEL >= 744 mg/kg	oral: feed	90 d daily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Geraniol 106-24-1	NOAEL >= 550 mg/kg	oral: feed	112 d daily	rat	not specified
Linalool 78-70-6	NOAEL 117 mg/kg	oral: gavage	28 d daily	rat	OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)

Aspiration hazard:

The mixture is classified based on Viscosity data.

Hazardous substances CAS-No.	Viscosity (kinematic) Value	Temperature	Method	Remarks
Limonene, D- 5989-27-5	0,87 mm ² /s	25 °C	not specified	

11.2 Information on other hazards

not applicable

SECTION 12: Ecological information

General ecological information:

Do not empty into drains, soil or bodies of water.

12.1. Toxicity

Toxicity (Fish):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Limonene, D-5989-27-5	LC50	0,702 mg/l	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
Limonene, D-5989-27-5	LC10	0,32 mg/l	8 d	Pimephales promelas	OECD Guideline 212 (Fish, Short-term Toxicity Test on Embryo and Sac-Fry Stages)
p-mentha-1,4-diene 99-85-4	LC50	2,792 mg/l	96 h	Danio rerio	OECD Guideline 203 (Fish, Acute Toxicity Test)
7-Methyl-3-methyleneocta-1,6-diene 123-35-3	LC50	Toxicity > Water solubility	96 h	Cyprinus carpio	OECD Guideline 203 (Fish, Acute Toxicity Test)
Pin-2(3)-ene 80-56-8	LC50	0,303 mg/l	96 h	Danio rerio	OECD Guideline 203 (Fish, Acute Toxicity Test)
Pin-2(10)-ene 127-91-3	LC50	0,5 mg/l	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
Terpinolene 586-62-9	LC50	0,688 mg/l	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
p-Cymene 99-87-6	LC50	48 mg/l	96 h	Cyprinodon variegatus	OECD Guideline 203 (Fish, Acute Toxicity Test)
3,7,7-trimethylbicyclo[4.1.0]hept-3-ene 13466-78-9	LC50	Toxicity > Water solubility		Cyprinus carpio	OECD Guideline 203 (Fish, Acute Toxicity Test)
Geraniol 106-24-1	LC50	22 mg/l	96 h	Danio rerio	OECD Guideline 203 (Fish, Acute Toxicity Test)
Linalool 78-70-6	LC50	27,8 mg/l	96 h	Salmo gairdneri (new name: Oncorhynchus mykiss)	OECD Guideline 203 (Fish, Acute Toxicity Test)

Toxicity (aquatic invertebrates):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Limonene, D-5989-27-5	EC50	0,577 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
p-mentha-1,4-diene 99-85-4	EC50	10,189 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
7-Methyl-3-methyleneocta-1,6-diene 123-35-3	EC50	1,47 mg/l Toxicity > Water solubility	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Pin-2(3)-ene 80-56-8	EC50	0,475 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Pin-2(10)-ene 127-91-3	EC50	1,25 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Terpinolene 586-62-9	EC50	0,634 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

p-Cymene 99-87-6	EC50	6,5 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
3,7,7- trimethylbicyclo[4.1.0]hept-3- ene 13466-78-9	EC50	0,8 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Geraniol 106-24-1	EC50	10,8 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Linalool 78-70-6	EC50	59 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Chronic toxicity (aquatic invertebrates):

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Limonene, D- 5989-27-5	EC10	0,153 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)

Toxicity (Algae):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Limonene, D- 5989-27-5	EC50	0,32 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Limonene, D- 5989-27-5	EC10	0,174 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
p-mentha-1,4-diene 99-85-4	EC50	Toxicity > Water solubility	72 h	Scenedesmus capricornutum	OECD Guideline 201 (Alga, Growth Inhibition Test)
7-Methyl-3-methyleneocta- 1,6-diene 123-35-3	EC50	0,342 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
7-Methyl-3-methyleneocta- 1,6-diene 123-35-3	EC10	0,274 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Pin-2(3)-ene 80-56-8		0,131 mg/l	48 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Pin-2(10)-ene 127-91-3	EC50	1,44 mg/l	48 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Terpinolene 586-62-9	EC10	0,273 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Terpinolene 586-62-9	EC50	0,692 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
p-Cymene 99-87-6	EC50	4,03 mg/l	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
p-Cymene 99-87-6	NOEC	1,4 mg/l	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
3,7,7- trimethylbicyclo[4.1.0]hept-3- ene 13466-78-9	NOEC	Toxicity > Water solubility		Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
3,7,7- trimethylbicyclo[4.1.0]hept-3- ene 13466-78-9	EC50	Toxicity > Water solubility		Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Geraniol 106-24-1	EC50	13,1 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Geraniol 106-24-1	EC10	3,77 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Linalool 78-70-6	EC50	88,3 mg/l	96 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Linalool 78-70-6	EC10	38,4 mg/l	96 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)

Toxicity (microorganisms):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Limonene, D- 5989-27-5	EC10	18 mg/l	3 h	activated sludge of a predominantly domestic sewage	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
p-mentha-1,4-diene 99-85-4	EC50	Toxicity > Water solubility	3 h	activated sludge, domestic	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Terpinolene 586-62-9	EC50	69 mg/l	3 h	activated sludge of a predominantly domestic sewage	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Geraniol 106-24-1	EC50	70 mg/l	30 min	activated sludge, domestic	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Linalool	EC0	100 mg/l	3 h		OECD Guideline 209

78-70-6					(Activated Sludge, Respiration Inhibition Test)
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12.2. Persistence and degradability

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Test type	Degradability	Exposure time	Method
Limonene, D- 5989-27-5	readily biodegradable	aerobic	71,4 %	28 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
p-mentha-1,4-diene 99-85-4	readily biodegradable	aerobic	94 %	28 day	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))
7-Methyl-3-methyleneocta- 1,6-diene 123-35-3	readily biodegradable	aerobic	76 %	28 d	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Pin-2(3)-ene 80-56-8	readily biodegradable	aerobic	76 %	28 d	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Pin-2(10)-ene 127-91-3	readily biodegradable	aerobic	76 %	28 d	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Terpinolene 586-62-9	readily biodegradable	aerobic	81 %	28 d	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
p-Cymene 99-87-6	readily biodegradable	aerobic	88 %	14 d	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))
3,7,7- trimethylbicyclo[4.1.0]hept-3- ene 13466-78-9	readily biodegradable	aerobic	76 %	28 d	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Geraniol 106-24-1	readily biodegradable	aerobic	> 90 - 100 %	3 d	OECD Guideline 301 A (new version) (Ready Biodegradability: DOC Die Away Test)
Linalool 78-70-6	readily biodegradable	aerobic	> 97,1 %	28 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Linalool 78-70-6	inherently biodegradable		100 %	13 d	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	LogPow	Temperature	Method
Limonene, D- 5989-27-5	4,57		not specified
p-mentha-1,4-diene 99-85-4	5,4	25 °C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
7-Methyl-3-methyleneocta- 1,6-diene 123-35-3	4,82	30 °C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
Pin-2(3)-ene 80-56-8	4,6 - 5,5	35 °C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
4-isopropenylcyclohex-1- enecarbaldehyde 2111-75-3	3,34		not specified
Pin-2(10)-ene 127-91-3	4,425	25 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
Terpinolene 586-62-9	5,3	30 °C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
p-Cymene 99-87-6	4,1		not specified
3,7,7- trimethylbicyclo[4.1.0]hept-3- ene 13466-78-9	4,38	37 °C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
Geraniol 106-24-1	2,6	25 °C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
Linalool 78-70-6	3,1	25 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)

12.5. Results of PBT and vPvB assessment

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	PBT / vPvB
Limonene, D- 5989-27-5	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
p-Cymene 99-87-6	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Geraniol 106-24-1	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Linalool 78-70-6	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

12.6. Endocrine disrupting properties

not applicable

12.7. Other adverse effects

No data available.

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

Product disposal:

In consultation with the responsible local authority, must be subjected to special treatment.

Waste code

The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.

080409

SECTION 14: Transport information**14.1. UN number or ID number**

ADR	2052
RID	2052
ADN	2052
IMDG	2052
IATA	2052

14.2. UN proper shipping name

ADR	DIPENTENE
RID	DIPENTENE
ADN	DIPENTENE
IMDG	DIPENTENE
IATA	Dipentene

14.3. Transport hazard class(es)

ADR	3
RID	3
ADN	3
IMDG	3
IATA	3

14.4. Packing group

ADR	III
RID	III
ADN	III
IMDG	III
IATA	III

14.5. Environmental hazards

ADR	Environmentally Hazardous
RID	Environmentally Hazardous
ADN	Environmentally Hazardous
IMDG	Marine Pollutant
IATA	not applicable

14.6. Special precautions for user

ADR	not applicable Tunnelcode: (D/E)
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Ozone Depleting Substance (ODS) (Regulation (EC) No 2024/590):	Not applicable
Prior Informed Consent (PIC) (Regulation (EU) No 649/2012):	Not applicable
Persistent organic pollutants (Regulation (EU) 2019/1021):	Not applicable
VOC content (2010/75/EU)	96,3 %

15.2. Chemical safety assessment

A chemical safety assessment has been carried out.

SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows:

H226 Flammable liquid and vapour.
 H302 Harmful if swallowed.
 H304 May be fatal if swallowed and enters airways.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H318 Causes serious eye damage.
 H319 Causes serious eye irritation.
 H331 Toxic if inhaled.
 H332 Harmful 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.
 H412 Harmful to aquatic life with long lasting effects.

ED:	Substance identified as having endocrine disrupting properties
EU OEL:	Substance with a Union workplace exposure limit
EU EXPLD 1:	Substance listed in Annex I, Reg (EC) No. 2019/1148
EU EXPLD 2:	Substance listed in Annex II, Reg (EC) No. 2019/1148
SVHC:	Substance of very high concern (REACH Candidate List)
PBT:	Substance fulfilling persistent, bioaccumulative and toxic criteria
PBT/vPvB:	Substance fulfilling persistent, bioaccumulative and toxic plus very persistent and very bioaccumulative criteria
vPvB:	Substance fulfilling very persistent and very bioaccumulative criteria

Further information:

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Dear Customer,

Henkel is committed to creating a sustainable future by promoting opportunities along the entire value chain. If you would like to contribute by switching from a paper to the electronic version of SDS, please contact the local Customer Service representative. We recommend to use a non-personal email address (e.g. SDS@your_company.com).

Relevant changes in this safety data sheet are indicated by vertical lines at the left margin in the body of this document. Corresponding text is displayed in a different color on shadowed fields.