



Trade name: Finishing Liquid

Substance number: F24900

Version: 2 / GB

Date revised: 30.08.2024

Replaces Version: 1 / GB

Print date: 30.08.2024

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

1.1. Product identifier

Finishing Liquid

UFI

UFI: 7SX6-Y2EA-900N-V50X

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

Use of the substance/preparation

Polishing liquid for clearing rough surfaces of EVA materials

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Dreve Dentamid GmbH

Max-Planck-Straße 31

DE-59423 Unna

Telephone no. +49 2303 8807-0

Fax no. +49 2303 8807-29

Information provided Department Research & Development: Fax: +49 2303 8807-562

by / telephone

E-mail address of sicherheitsdatenblatt@dreve.com

person responsible

for this SDS

1.4. Emergency telephone number

Henkel Fire Department / 24h-Emergency-Contact-No.: +49 211 797-3350

SECTION 2: Hazards identification ***

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)

Flam. Liq. 2 H225

Eye Irrit. 2 H319

Skin Sens. 1 H317

STOT SE 3 H336

Asp. Tox. 1 H304

Aquatic Chronic 2 H411

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms ***

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**Signal word**

Danger

Hazard statements ***

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

Precautionary statements ***

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor.
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P331 Do NOT induce vomiting.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains *** Acetone; Eucalyptol; (R)-p-mentha-1,8-diene; alpha-pinene; alpha-Terpinene; p-Isopropyl toluene; alpha-phellandrene

Supplemental information

EUH066 Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

No special hazards have to be mentioned.

The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

SECTION 3: Composition/information on ingredients ***

3.2. Mixtures**Hazardous ingredients *******Eucalyptol**

CAS No.	470-82-6		
EINECS no.	207-431-5		
Concentration	>= 50		%
Classification (Regulation (EC) No. 1272/2008)	Flam. Liq. 3	H226	
	Skin Sens. 1B	H317	

Acetone



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CAS No. 67-64-1
 EINECS no. 200-662-2
 Registration no. 01-2119471330-49
 Concentration \geq 20 < 25 %
 Classification (Regulation (EC) No. 1272/2008)
 Flam. Liq. 2 H225
 Eye Irrit. 2 H319
 STOT SE 3 H336

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

CAS No. 5989-27-5
 EINECS no. 227-813-5
 Registration no. 01-2119529223-47
 Concentration \geq 2,5 < 7,7 %
 Classification (Regulation (EC) No. 1272/2008)
 Flam. Liq. 3 H226
 Skin Sens. 1B H317
 Skin Irrit. 2 H315
 Aquatic Acute 1 H400
 Aquatic Chronic 1 H410
 Asp. Tox. 1 H304

Concentration limits (Regulation (EC) No. 1272/2008)

Aquatic Acute 1 H400 M = 1
 Aquatic Chronic 1 H410 M = 1

p-Isopropyl toluene

CAS No. 99-87-6
 EINECS no. 202-796-7
 Registration no. 01-2119881770-31
 Concentration \geq 2,5 < 10 %
 Classification (Regulation (EC) No. 1272/2008)
 Flam. Liq. 3 H226
 Asp. Tox. 1 H304
 Aquatic Chronic 2 H411
 Acute Tox. 3 H331

cATpE inhalative, Dust/Mist 0,5 mg/l
 ATE inhalative, Vapors 3 mg/l

alpha-pinene

CAS No. 80-56-8
 EINECS no. 201-291-9
 Registration no. 01-2119519223-49
 Concentration \geq 1 < 2,2 %
 Classification (Regulation (EC) No. 1272/2008)
 Flam. Liq. 3 H226
 Acute Tox. 4 H302
 Asp. Tox. 1 H304
 Skin Irrit. 2 H315
 Skin Sens. 1B H317
 Aquatic Acute 1 H400
 Aquatic Chronic 1 H410

Concentration limits (Regulation (EC) No. 1272/2008)

Aquatic Acute 1 H400 M = 1
 Aquatic Chronic 1 H410 M = 1



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ATE	oral	1	500	mg/kg
alpha-Terpinene				
CAS No.	99-86-5			
EINECS no.	202-795-1			
Registration no.	01-2120766853-42			
Concentration	>=	1	<	2,5 %
Classification (Regulation (EC) No. 1272/2008)				
	Flam. Liq. 3	H226		
	Acute Tox. 4	H302		
	Asp. Tox. 1	H304		
	Skin Sens. 1	H317		
	Aquatic Chronic 2	H411		
ATE	oral		680	mg/kg
gamma-terpinene				
CAS No.	99-85-4			
EINECS no.	202-794-6			
Registration no.	01-2120780478-40			
Concentration	>=	1	<	2,5 %
Classification (Regulation (EC) No. 1272/2008)				
	Flam. Liq. 3	H226		
	Repr. 2	H361		
	Aquatic Chronic 2	H411		
alpha-phellandrene				
CAS No.	99-83-2			
EINECS no.	202-792-5			
Concentration	>=	1	<	10 %
Classification (Regulation (EC) No. 1272/2008)				
	Flam. Liq. 3	H226		
	Asp. Tox. 1	H304		

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated, soaked clothing immediately and dispose of safely. Adhere to personal protective measures when giving first aid. Clean body thoroughly (bath, shower). In any case show the physician the Safety Data Sheet.

After inhalation

Ensure supply of fresh air. Remove affected person from danger area. Seek medical advice immediately.

After skin contact

Wash off immediately with soap and water. Seek medical advice immediately.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Take medical treatment.

After ingestion

Call in a physician immediately and show him the Safety Data Sheet. Rinse mouth thoroughly with water. Let plenty of water be drunk in small gulps. Do not induce vomiting.

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Adhere to personal protective measures when giving first aid

First aider: Pay attention to self-protection!

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

Until now no symptoms known so far.

4.3. Indication of any immediate medical attention and special treatment needed**Hints for the physician / hazards**

In the case of swallowing with subsequent vomiting, aspiration of the lungs can occur which can lead to chemical pneumonia or asphyxiation.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**Recommended: alcohol resistant foam, CO₂, powders, water spray/mist, Extinguishing measures to suit surroundings**Non suitable extinguishing media**

Full water jet

5.2. Special hazards arising from the substance or mixture

In case of combustion evolution of dangerous gases possible.

5.3. Advice for firefighters**Special protective equipment for fire-fighting**

Do not inhale explosion and/or combustion gases. In case of combustion use a suitable breathing apparatus. Wear full protective suit.

Other information

Collect contaminated fire-fighting water separately, must not be discharged into the drains. Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations. Observe manufacturer's / distributor's instructions.

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

Keep away sources of ignition. Ensure adequate ventilation. Use breathing apparatus if exposed to vapours/dust/aerosol. Avoid contact with skin, eyes and clothing. Use personal protective clothing. Refer to protective measures listed in Sections 7 and 8.

6.2. Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers). Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil. Retain and dispose of contaminated wash water. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Pick up rest with suitable absorbent materials. Do not pick up with the help of saw-dust or other combustible substances. Clean contaminated floors and objects thoroughly, observing environmental regulations. Containers in which spilt substance has been collected must be adequately labelled. Dispose of as prescribed.



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6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Ensure adequate ventilation. Avoid formation of aerosols. Avoid impact, friction and electro-static loading; risk of ignition! Use explosion-proof apparatus and fittings. Perform filling operations only at stations with exhaust ventilation facilities. Provide suitable exhaust ventilation at the processing machines. If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn. Keep container tightly closed.

Advice on protection against fire and explosion

Keep away from sources of heat and ignition. No smoking. Take action to prevent static discharges. Avoid impact and friction. Use only explosion-proof equipment. Keep away from combustible material. Wear shoes with conductive soles.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep in original packaging, tightly closed. Storage rooms must be properly ventilated. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Provide solvent-resistant and impermeable floor.

Hints on storage assembly

Do not store together with foodstuffs. Do not store with strong oxidizing agents.

Further information on storage conditions

Keep under lock and key or accessible only to specialists or people who are authorized. Keep container tightly closed and in a well-ventilated place. Keep in a cool place

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

Acetone

List	TRGS 900		
Value	1210	mg/m ³	500 ppm(V)
Maximum limit value: 2(I) Pregnancy group: Y; Status: 02/15; Remarks: AGS, DFG			

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

List	TRGS 900		
Type	AGW		
Value	28	mg/m ³	5 ml/m ³
Short term exposure limit	112	mg/m ³	20 ml/m ³ (ppm)
Maximum limit value: 4(II); Skin resorption / sensibilisation: H,Sh; Pregnancy group: Y; Status: 02/13; Remarks: DFG			

Biological limit values

Acetone

List	BGW (TRGS 903)
Value	80 mg/l



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Parameter	Acetone
Testing material	Urine (U)
Test date	End of exposure or end of shift (b)

Other information

Contains no substances with occupational exposure limit values.

Derived No/Minimal Effect Levels (DNEL/DMEL)**Acetone**

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Concentration	186	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Short term	
Route of exposure	inhalative	
Concentration	2420	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Concentration	1210	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	oral	
Concentration	62	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	dermal	
Concentration	62	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Concentration	200	mg/m ³

Eucalyptol

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	3,52	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	



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Concentration	1	mg/kg/d
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Type of value	Derived No Effect Level (DNEL)	
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Reference group	Consumer	
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Duration of exposure	Long term	
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Route of exposure	inhalative	
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Mode of action	Systemic effects	
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Concentration	1,74	mg/m ³
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Type of value	Derived No Effect Level (DNEL)	
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Reference group	Consumer	
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Duration of exposure	Long term	
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Route of exposure	dermal	
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Mode of action	Systemic effects	
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Concentration	1	mg/kg/d
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Type of value	Derived No Effect Level (DNEL)	
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Reference group	Consumer	
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Duration of exposure	Long term	
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Route of exposure	oral	
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Mode of action	Systemic effects	
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Concentration	600	mg/kg/d
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(R)-p-mentha-1,8-diene

Type of value	Derived No Effect Level (DNEL)	
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Reference group	Worker	
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Duration of exposure	Repeated exposure	
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Route of exposure	inhalative	
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Mode of action	Systemic effects	
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Concentration	66,7	mg/m ³
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Type of value	Derived No Effect Level (DNEL)	
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Reference group	Worker	
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Duration of exposure	Repeated exposure	
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Route of exposure	dermal	
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Mode of action	Systemic effects	
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Concentration	9,5	mg/kg/d
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p-Isopropyl toluene

Type of value	Derived No Effect Level (DNEL)	
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Reference group	Worker	
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Duration of exposure	Long term	
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Route of exposure	inhalative	
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Mode of action	Systemic effects	
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Concentration	0,88	mg/m ³
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Type of value	Derived No Effect Level (DNEL)	
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Reference group	Worker	
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Duration of exposure	Long term	
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Route of exposure	dermal	
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Mode of action	Systemic effects	
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Concentration	0,25	mg/kg/d
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Type of value	Derived No Effect Level (DNEL)	
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Reference group	Consumer	
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Duration of exposure	Long term	
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Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	0,22	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	0,125	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	0,125	mg/kg/d
alpha-pinene		
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	3,8	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	0,84	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	0,674	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	0,3	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	0,3	mg/kg/d

alpha-Terpinene

Type of value Derived No Effect Level (DNEL)



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Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	2,939	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	0,833	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	0,725	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	0,417	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	0,417	mg/kg/d
gamma-terpinene		
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	2,939	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	0,833	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	0,725	mg/m ³



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Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	0,417	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	0,417	mg/kg/d

Predicted No Effect Concentration (PNEC)**Acetone**

Type of value	PNEC	
Type	Freshwater	
Concentration	10,6	mg/l

Type of value	PNEC	
Type	Saltwater	
Concentration	1,06	mg/l

Type of value	PNEC	
Type	Water (intermittent release)	
Concentration	21	mg/l

Type of value	PNEC	
Type	Sediment	
Concentration	30,4	mg/kg/d

Type of value	PNEC	
Type	Marine sediment	
Concentration	3,04	mg/kg/d

Type of value	PNEC	
Type	Soil	
Concentration	33,3	mg/kg/d

Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	100	mg/l

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

Type of value	PNEC	
Type	Freshwater	
Conditions	Short term	
Concentration	14	µg/l

Type of value	PNEC	
Type	Saltwater	
Conditions	Short term	
Concentration	1,4	µg/l

Type of value	PNEC	
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Type Conditions Concentration	Sewage treatment plant (STP) Short term 1,8	mg/l
Type of value Type Conditions Concentration	PNEC Sediment Short term 3,85	mg/kg
Type of value Type Conditions Concentration	PNEC Marine sediment Short term 0,385	mg/kg
Type of value Type Conditions Concentration	PNEC Soil Short term 0,763	mg/kg
Eucalyptol		
Type of value Type Concentration	PNEC Freshwater 57	µg/l
Type of value Type Concentration	PNEC Saltwater 5,7	µg/l
Type of value Type Concentration	PNEC Sewage treatment plant (STP) 10	mg/l
Type of value Type Concentration	PNEC Freshwater sediment 1,425	mg/kg
Type of value Type Concentration	PNEC Marine sediment 0,142	mg/kg
Type of value Type Concentration	PNEC Soil 0,25	mg/kg
Type of value Type Concentration	PNEC Secondary poisoning 40	mg/kg
p-Isopropyl toluene		
Type of value Type Concentration	PNEC Freshwater 0,004	mg/l
Type of value Type Concentration	PNEC Sewage treatment plant (STP) 10	mg/l



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Type of value	PNEC	
Type	Freshwater sediment	
Concentration	1,52	mg/kg

Type of value	PNEC	
Type	Marine sediment	
Concentration	0,152	mg/kg

Type of value	PNEC	
Type	Soil	
Concentration	0,302	mg/kg

alpha-pinene

Type of value	PNEC	
Type	Freshwater	
Concentration	0,606	µg/l

Type of value	PNEC	
Type	Saltwater	
Concentration	0,061	µg/l

Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	0,2	mg/l

Type of value	PNEC	
Type	Freshwater sediment	
Concentration	0,157	mg/kg

Type of value	PNEC	
Type	Marine sediment	
Concentration	0,016	mg/kg

Type of value	PNEC	
Type	Soil	
Concentration	0,032	mg/kg

Type of value	PNEC	
Type	Secondary poisoning	
Concentration	8,76	mg/kg

alpha-Terpinene

Type of value	PNEC	
Type	Freshwater	
Concentration	0,002	mg/l

Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	10	mg/l

Type of value	PNEC	
Type	Freshwater sediment	
Concentration	0,196	mg/kg

Type of value	PNEC	
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Type	Marine sediment	
Concentration	0,02	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	0,023	mg/kg
Type of value	PNEC	
Type	Secondary poisoning	
Concentration	8,333	mg/kg
gamma-terpinene		
Type of value	PNEC	
Type	Freshwater	
Concentration	0,003	mg/l
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	10	mg/l
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	0,49	mg/kg
Type of value	PNEC	
Type	Marine sediment	
Concentration	0,049	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	0,423	mg/kg

8.2. Exposure controls

General protective and hygiene measures

Do not smoke during work time. Hold emergency shower available. Hold eye wash fountain available. Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes. Take off immediately all contaminated clothing. Do not eat or drink during work time. Storage of foodstuffs in work rooms is forbidden. Wash hands before breaks and after work. Clean skin thoroughly after work; apply skin cream.

Respiratory protection

Do not inhale vapours; In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Hand protection must comply with EN 374.

Appropriate Material Butyl rubber

Appropriate Material nitrile

Eye protection

Tightly fitting safety glasses

Body protection

Clothing as usual in the chemical industry.



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SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state	liquid	
Colour	colourless	
Odour	characteristic	
Melting point		
Remarks	not determined	
Freezing point		
Remarks	not determined	
Boiling point or initial boiling point and boiling range		
Value	56	°C
Flammability		
evaluation	Not applicable	
Upper and lower explosive limits		
Lower explosion limit	2,6	%(V)
Upper explosion limit	13,0	%(V)
Flash point		
Value	-17	°C
Method	closed cup	
Auto-ignition temperature		
Value	540	°C
Decomposition temperature		
Remarks	not determined	
pH value		
Remarks	not determined	
Viscosity		
Remarks	not determined	
Solubility(ies)		
Remarks	not determined	
Partition coefficient n-octanol/water (log value)		
Remarks	not determined	
Vapour pressure		
Value	233	hPa
Density and/or relative density		
Value	0,89	g/cm ³
Relative vapour density		
Remarks	not determined	

9.2. Other information

Odour threshold	
Remarks	not determined
Evaporation rate (ether = 1) :	
Remarks	not determined
Solubility in water	



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Remarks partially miscible

Explosive properties

evaluation not determined

Oxidising properties

Remarks not determined

Other information

None known

SECTION 10: Stability and reactivity**10.1. Reactivity**

No hazardous reactions when stored and handled according to prescribed instructions.

10.2. Chemical stability

No hazardous reactions known.

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

No hazardous reactions known.

10.5. Incompatible materials

None known

10.6. Hazardous decomposition products

Toxic gases/vapours, Irritant gases/vapours

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity**

ATE	>	10.000	mg/kg
Method	calculated value according to GHS (e.g see UN GHS)		

Acute oral toxicity (Components)**Acetone**

Species	rat		
LD50		5800	mg/kg

Eucalyptol

Species	rat		
LD50		4500	mg/kg
Method	OECD 401		
Remarks	Test conducted with a similar formulation.		

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

Species	rat (female)		
LD50	>	2000	mg/kg
Method	OECD 423		

p-Isopropyl toluene

Species	rat		
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LD50 appr. 4750 mg/kg

alpha-pinene

Species rat (female)
 LD50 > 500 mg/kg
 Method OECD 423

alpha-Terpinene

ATE 680 mg/kg

gamma-terpinene

Species rat (female)
 LD50 > 2000 mg/kg
 Method OECD 423

Acute dermal toxicity

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

Acute dermal toxicity (Components)**Acetone**

Species rabbit
 LD50 > 15800 mg/kg

Eucalyptol

Species rat
 LD50 > 2000 mg/kg
 Method OECD 402
 Remarks Test conducted with a similar formulation.

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

Species rabbit
 LD50 > 5000 mg/kg
 Remarks Test conducted with a similar formulation.

p-Isopropyl toluene

Species rabbit
 LD50 > 5000 mg/kg

alpha-pinene

Species rat
 LD50 > 2000 mg/kg
 Method OECD 402

alpha-Terpinene

Species rat (female)
 LD50 > 2000 mg/kg
 Method OECD 402

gamma-terpinene

Species rat
 LD50 > 2000 mg/kg
 Method OECD 402

Acute inhalational toxicity

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

Acute inhalative toxicity (Components)**Acetone**

Species rat
 LC50 76000 mg/m³
 Duration of exposure 4 h
 Administration/Form Vapors

p-Isopropyl toluene

ATE 3 mg/l



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Administration/Form Vapors

Skin corrosion/irritation

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

Skin corrosion/irritation (Components)**Acetone**

Remarks Repeated and prolonged skin contact may lead to defatting and irritation of the skin.

alpha-pineneSpecies Human
evaluation irritant**Serious eye damage/irritation**evaluation irritant
Remarks The classification criteria are met.**Serious eye damage/irritation (Components)****Acetone**Species rabbit
evaluation irritant**alpha-Terpinene**Species rabbit
evaluation irritant**Sensitization**evaluation May cause sensitization by skin contact.
Remarks The classification criteria are met.**Sensitization (Components)****Eucalyptol**Route of exposure dermal
Species mouse
evaluation sensitizing
Method OECD 429**(R)-p-mentha-1,8-diene**Species mouse
evaluation sensitizing
Method OECD 429**alpha-pinene**evaluation sensitizing
Source ECHA**alpha-Terpinene**Route of exposure dermal
Species mouse
evaluation sensitizing
Method OECD 429**Subacute, subchronic, chronic toxicity**

Remarks not determined

Mutagenicity

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

Reproductive toxicity

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

Reproduction toxicity (Components)**p-Isopropyl toluene**



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evaluation

On grounds of results of experiments on test animals, a probable risk of damage to the embryo must be assumed.

gamma-terpinene

evaluation

Suspected of damaging fertility or the unborn child.

Carcinogenicity

Remarks

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

Specific Target Organ Toxicity (STOT)**Single exposure**

Remarks

The classification criteria are met.

evaluation

May cause drowsiness or dizziness.

Repeated exposure

Remarks

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

Specific Target Organ Toxicity (STOT) (Components)**Acetone****Single exposure**

evaluation

May cause drowsiness or dizziness.

Aspiration hazard

The classification criteria are met.

Harmful: may cause lung damage if swallowed.

Aspiration hazard (Components)**p-Isopropyl toluene**

Harmful: may cause lung damage if swallowed.

alpha-pinene

Harmful: may cause lung damage if swallowed.

alpha-Terpinene

Harmful: may cause lung damage if swallowed.

alpha-phellandrene

Harmful: may cause lung damage if swallowed.

11.2. Information on other hazards**Endocrine disrupting properties with respect to humans**

The product does not contain a substance that has endocrine disrupting properties with respect to humans.

Experience in practice

Inhalation may lead to irritation of the respiratory tract.

Other information

No toxicological data are available.

SECTION 12: Ecological information**12.1. Toxicity****General information**

not determined

Fish toxicity (Components)**Acetone**

Species

Fathead minnow (*Pimephales promelas*)



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LC50	8120		mg/l
Duration of exposure	96	h	
Method	OECD 203		

Eucalyptol

Species	rainbow trout (<i>Oncorhynchus mykiss</i>)		
LC50	57		mg/l
Duration of exposure	96	h	
Method	OECD 203		

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

Species	Fathead minnow (<i>Pimephales promelas</i>)		
LC50	720		µg/l
Duration of exposure	96	h	
Method	OECD 203		

p-Isopropyl toluene

Species	Cyprinodon variegatus		
LC50	48		mg/l
Duration of exposure	96	h	

alpha-pinene

Species	zebra fish (<i>Brachydanio rerio</i>)		
LC50	0,303		mg/l
Duration of exposure	96	h	
Method	OECD 203		

alpha-Terpinene

Species	Fathead minnow (<i>Pimephales promelas</i>)		
LC50	3150		µg/l
Duration of exposure	96	h	
Method	OECD 203		

gamma-terpinene

Species	zebra fish (<i>Brachydanio rerio</i>)		
EC50	2,792		mg/l
Duration of exposure	96	h	
Method	OECD 203		

Daphnia toxicity (Components)**Acetone**

Species	Daphnia pulex		
LC50	8800		mg/l
Duration of exposure	48	h	

Acetone

Species	Daphnia magna		
NOEC	2212		mg/l
Duration of exposure	28	d	

Eucalyptol

Species	Daphnia magna		
EC50	> 100		mg/l
Duration of exposure	48	h	
Method	OECD 202		

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

Species	Daphnia magna		
EC50	0,51		mg/l
Duration of exposure	48	h	
Method	OECD 202		

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

Species	Daphnia magna		
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NOEC	80		µg/l
Duration of exposure	21	d	
Method	OECD 211		

p-Isopropyl toluene

Species	Daphnia magna		
EC50	3,7		mg/l
Duration of exposure	48	h	
Method	OECD 202		

alpha-pinene

Species	Daphnia magna		
EC50	0,475		mg/l
Duration of exposure	48	h	
Method	OECD 202		

alpha-Terpinene

Species	Daphnia magna		
EC50	1,7		mg/l
Duration of exposure	48	h	
Method	OECD 202		

gamma-terpinene

Species	Daphnia magna		
EC50	10,189		mg/l
Duration of exposure	48	h	
Method	OECD 202		

Algae toxicity (Components)**Acetone**

Species	Microcystis aeruginosa (blue alge)		
NOEC	530		mg/l
Duration of exposure	8	d	

Eucalyptol

Species	Pseudokirchneriella subcapitata		
EC50	> 74		mg/l
Duration of exposure	72	h	
Method	OECD 201		

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

Species	Pseudokirchneriella subcapitata		
EC50	0,32		mg/l
Duration of exposure	72	h	
Method	OECD 201		

p-Isopropyl toluene

Species	Selenastrum capricornutum		
EC50	4,03		mg/l
Duration of exposure	72	h	
Method	OECD 201		

alpha-pinene

Species	Pseudokirchneriella subcapitata		
NOEC	0,131		mg/l
Duration of exposure	48	h	
Method	OECD 201		

alpha-Terpinene

Species	Pseudokirchneriella subcapitata		
NOEC	3,7		mg/l
Duration of exposure	72	h	
Method	OECD 201		



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gamma-terpinene

Species	Selenastrum capricornutum		
EC50	>	10,82	mg/l
Duration of exposure		72	h
Method	OECD 201		

Bacteria toxicity (Components)**Acetone**

Species	activated sludge		
EC50		61,15	mg/l
Duration of exposure		30	min
Method	OECD 209		

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

Species	activated sludge		
EC50		209	mg/l
Duration of exposure		3	h
Method	OECD 209		
Remarks	Test conducted with a similar formulation.		

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

Species	activated sludge		
NOEC		18	mg/l
Remarks	Test conducted with a similar formulation.		

Eucalyptol

Species	activated sludge		
EC50	>	100	mg/l
Duration of exposure		3	h
Method	OECD 209		

p-Isopropyl toluene

Species	activated sludge		
NOEC		100	mg/l
Duration of exposure		28	d

alpha-pinene

NOEC	appr.	2	mg/l
Duration of exposure		28	d

alpha-Terpinene

Species	activated sludge		
EC50	>	1000	mg/l
Duration of exposure		3	h

gamma-terpinene

Species	activated sludge		
EC50	>	1000	mg/l
Duration of exposure		3	h
Method	OECD 209		

12.2. Persistence and degradability**General information**

not determined

Biodegradability (Components)**(R)-p-mentha-1,8-diene**

Value		71,4	%
Duration of test		28	d
evaluation	Readily biodegradable (according to OECD criteria)		
Method	OECD 301B / ISO 9439 / EEC 84/449 C5		

Eucalyptol



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Value	82	%
Duration of test evaluation	28 d	
Method	Readily biodegradable (according to OECD criteria) OECD 301F	

p-Isopropyl toluene

Value	64	%
Duration of test evaluation	28 d	
Method	Moderately/partially biodegradable OECD 301F	

alpha-pinene

Value	appr. 68	%
Duration of test evaluation	28 d	
Method	Readily biodegradable (according to OECD criteria) OECD 301D / EEC 84/449	

alpha-Terpinene

Value	40	%
Duration of test evaluation	28 d	
Method	Moderately/partially biodegradable OECD 301F	

gamma-terpinene

evaluation	Readily biodegradable (according to OECD criteria)	
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Ready degradability (Components)**Acetone**

Value	90,9	%
Duration of test	28 d	

12.3. Bioaccumulative potential**General information**

not determined

Partition coefficient n-octanol/water (log value)

Remarks not determined

Octanol/water partition coefficient (log Pow) (Components)**Acetone**

log Pow -0,23

Eucalyptollog Pow 4,35
Temperature 25 °C**(R)-p-mentha-1,8-diene**log Pow 4,38
Temperature 37 °C**p-Isopropyl toluene**log Pow appr. 4,8
Temperature 23 °C**alpha-pinene**log Pow appr. 4,46
Temperature 20 °C**alpha-Terpinene**log Pow 5,3
Temperature 35 °C
Method OECD 117**gamma-terpinene**

log Pow 5,4



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Temperature 25 °C
Method OECD 117

12.4. Mobility in soil

General information

not determined

12.5. Results of PBT and vPvB assessment

General information

not determined

Results of PBT and vPvB assessment

The product contains no PBT substances
The product contains no vPvB substances.

12.6 Endocrine disrupting properties

Endocrine disrupting properties with respect to the environment

The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects

General information

not determined

General information / ecology

Do not allow to enter soil, waterways or waste water canal. Avoid release into the atmosphere.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

Must not be disposed together with household garbage.
Allocation of a waste code number, according to the European Waste Catalogue (EWC), should be carried out in agreement with the regional waste disposal company.

Disposal recommendations for packaging

Packaging that cannot be cleaned should be disposed off in agreement with the regional waste disposal company.

SECTION 14: Transport information ***

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	Land transport ADR/RID ***	Marine transport IMDG/GGVSee ***	Air transport ICAO/IATA ***
14.1. UN number or ID number	1993	1993	1993
14.2. UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (Acetone, (R)-p-mentha-1,8-diene)	FLAMMABLE LIQUID, N.O.S. (Acetone, (R)-p-mentha-1,8-diene)	FLAMMABLE LIQUID, N.O.S. (Acetone, (R)-p-mentha-1,8-diene)
14.3. Transport hazard class(es)	3	3	3
Label			
14.4. Packing group	II	II	II
Special provision	640C		
Remarks	The product is not subject to any other provisions of ADR provided packaging of not more than 5 l / 5 kg	The product can be transported in accordance with IMDG Code paragraph 2.10.2.7, provided packaging not more than 5 l / 5 kg.	The product is not subject to any other provisions of IATA provided packaging of not more than 5 l / 5 kg (A197)
Limited Quantity	1 l	1 l	
Transport category	2		
14.5. Environmental hazards	 ENVIRONMENTALLY HAZARDOUS	Marine Pollutant  ENVIRONMENTALLY HAZARDOUS	 ENVIRONMENTALLY HAZARDOUS
Tunnel restriction code	D/E		

SECTION 15: Regulatory information

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

Other information

All components are contained in the TSCA inventory or exempted.

15.2. Chemical safety assessment

For this preparation a chemical safety assessment has not been carried out.



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SECTION 16: Other information

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

Classification (Regulation (EC) No. 1272/2008)

Flam. Liq. 2	H225	On basis of test data
Eye Irrit. 2	H319	Calculation method
Skin Sens. 1	H317	Calculation method
STOT SE 3	H336	Calculation method
Asp. Tox. 1	H304	Calculation method
Aquatic Chronic 2	H411	Calculation method

Hazard statements listed in Chapter 2/3

H225	Highly flammable liquid and vapour.
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.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H336	May cause drowsiness or dizziness.
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.

CLP categories listed in Chapter 2/3

Acute Tox. 3	Acute toxicity, Category 3
Acute Tox. 4	Acute toxicity, Category 4
Aquatic Acute 1	Hazardous to the aquatic environment, acute, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic, Category 2
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Irrit. 2	Eye irritation, Category 2
Flam. Liq. 2	Flammable liquid, Category 2
Flam. Liq. 3	Flammable liquid, Category 3
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin irritation, Category 2
Skin Sens. 1	Skin sensitization, Category 1
Skin Sens. 1B	Skin sensitization, Category 1B
STOT SE 3	Specific target organ toxicity - single exposure, Category 3

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.