

MASKOMAL

Version 2.0 Revision Date: 25.05.2021 SDS Number: 103000008482 Date of last issue: 10.08.2018
Country / Language: GB / EN(GB)

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

1.1 Product identifier

Trade name : MASKOMAL

Product code : 57804478

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

Use of the Sub-
stance/Mixture : Odour Neutralizer

1.3 Details of the supplier of the safety data sheet

Supplier : Antec International Limited
Windham Road
Chilton Industrial Estate
CO10 2XD Sudbury / Suffolk, United Kingdom

Telephone : +4922188852288

E-mail address of person
responsible for the SDS : infosds@lanxess.com

1.4 Emergency telephone number

0870 190 6777. National Chemical Emergency Centre



SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Eye irritation, Category 2 H319: Causes serious eye irritation.

Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.

Long-term (chronic) aquatic hazard, Category 2 H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal word : Warning

Hazard statements : H317 May cause an allergic skin reaction.

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Precautionary statements	H319 Causes serious eye irritation.
	H411 Toxic to aquatic life with long lasting effects.
	Prevention:
	P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
	P264 Wash skin thoroughly after handling.
	P272 Contaminated work clothing should not be allowed out of the workplace.
	P273 Avoid release to the environment.
	P280 Wear protective gloves/ eye protection/ face protection.
	Response:
	P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
	P337 + P313 If eye irritation persists: Get medical advice/ attention.
	P362 + P364 Take off contaminated clothing and wash it before reuse.
	P391 Collect spillage.
	Disposal:
	P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

(R)-p-mentha-1,8-diene
Eucalyptus globulus, ext.
coumarin

2.3 Other hazards

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

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
(R)-p-mentha-1,8-diene	5989-27-5 227-813-5 601-029-00-7	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor Aquatic	>= 2.5 - < 10

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		Acute: 1	
p-menth-1-en-8-yl acetate	80-26-2 201-265-7	Aquatic Chronic 2; H411	>= 1 - < 2.5
Terpineol	8000-41-7 232-268-1	Skin Irrit. 2; H315 Eye Irrit. 2; H319	>= 1 - < 10
Citral terpenes	8007-02-1	Skin Irrit. 2; H315 Eye Irrit. 2; H319	>= 1 - < 10
docusate sodium	577-11-7 209-406-4	Skin Irrit. 2; H315 Eye Dam. 1; H318	>= 1 - < 3
C6-12-Alkylalcohol ethoxylate	68439-45-2	Acute Tox. 4; H302 Eye Dam. 1; H318	>= 1 - < 3
allyl hexanoate	123-68-2 204-642-4	Acute Tox. 3; H301 Acute Tox. 3; H331 Acute Tox. 3; H311 Aquatic Acute 1; H400 Aquatic Chronic 3; H412 M-Factor Aquatic Acute: 1	>= 0.25 - < 1
Eucalyptus globulus, ext.	84625-32-1 283-406-2	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Skin Sens. 1B; H317 Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 0.25 - < 1
coumarin	91-64-5 202-086-7	Acute Tox. 4; H302 Skin Sens. 1; H317 Aquatic Chronic 3; H412	>= 0.25 - < 1
Substances with a workplace exposure limit :			
isopentyl acetate	123-92-2 204-662-3 607-130-00-2	Flam. Liq. 3; H226	>= 1 - < 10

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
- If inhaled : If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.
- In case of skin contact : If skin irritation persists, call a physician.
If on skin, rinse well with water.



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If on clothes, remove clothes.

In case of eye contact : Immediately flush eye(s) with plenty of water.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

Risks : May cause an allergic skin reaction.
Causes serious eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Carbon dioxide (CO₂)
Carbon monoxide
Sulphur oxides
Metal oxides

5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For personal protection see section 8.
For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Do not breathe vapours/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Dispose of rinse water in accordance with local and national regulations.
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : When using do not eat or drink. When using do not smoke.
Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully re-sealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards.



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

7.3 Specific end use(s)

Specific use(s) : No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
isopentyl acetate	123-92-2	TWA	50 ppm 270 mg/m ³	2000/39/EC
Further information	Indicative			
		STEL	100 ppm 540 mg/m ³	2000/39/EC
Further information	Indicative			
		TWA	50 ppm 270 mg/m ³	GB EH40
		STEL	100 ppm 541 mg/m ³	GB EH40

8.2 Exposure controls

Engineering measures

This information is not available.

Personal protective equipment

Eye protection : Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.

Hand protection

Material : Polyvinyl chloride - PVC
Wearing time : < 60 min

Material : Nitrile rubber - NBR
Wearing time : < 60 min

Material : Butyl rubber - IIR
Wearing time : < 60 min

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves. After contamination with product change the gloves immediately and dispose of them according to relevant national and local regulations

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- Skin and body protection : Wear suitable protective clothing.
Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Respiratory protection : In the case of vapour formation use a respirator with an approved filter.
- Filter type : Recommended Filter type:
Combined inorganic and acidic gas/vapour, ammonia/amines and organic vapour type (ABEK)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Appearance : Emulsion
- Colour : yellow
- Odour : characteristic, Vanilla
- Odour Threshold : No data available
- pH : 6.65
Concentration: 100 %
- Melting point/freezing point : No data available
- Boiling point/boiling range : No data available
- Flash point : 54.6 °C
Method: closed cup
- Evaporation rate : No data available
- Flammability (solid, gas) :
- Upper explosion limit : No data available
- Lower explosion limit : No data available
- Vapour pressure : No data available
- Relative vapour density : No data available
- Relative density : No data available
- Density : 0.98 - 1.005 g/cm³ (20 °C)



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Solubility(ies) : No data available

Miscibility with water : completely miscible

Partition coefficient: n-octanol/water : No data available

Ignition temperature : No data available

Decomposition temperature : No data available

Viscosity : No data available

Explosive properties : No data available

Oxidizing properties : No data available

9.2 Other information

Flammability (liquids) : Does not sustain combustion.
Method: Sustained Combustibility Testing: test L.2, Part III
Remarks: > 75 °C

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.
Stable under recommended storage conditions.
No hazards to be specially mentioned.

10.4 Conditions to avoid

Conditions to avoid : No data available

10.5 Incompatible materials

Materials to avoid : No specific data.

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity : Acute toxicity estimate: > 2,000 mg/kg
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 2,000 mg/kg
Method: Calculation method

Components:

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

Acute oral toxicity : LD50 (Rat): 4,400 mg/kg

p-menth-1-en-8-yl acetate:

Acute oral toxicity : LD50 (Rat, male and female): 5,075 mg/kg
Method: OECD Test Guideline 401
GLP: no

Terpineol:

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 401
GLP: yes
Remarks: Extrapolation according to Regulation (EC) No. 440/2008

Acute inhalation toxicity : LC0 (Rat, male and female): > 4.76 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
GLP: yes

Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 402
GLP: yes
Remarks: Extrapolation according to Regulation (EC) No. 440/2008

Citral terpenes:



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Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

docosate sodium:

Acute oral toxicity : LD50 (Rat, male and female): > 2,100 mg/kg
Method: OECD Test Guideline 401
GLP: no
Assessment: The substance or mixture has no acute oral toxicity
Remarks: Dosage caused no mortality

Acute inhalation toxicity : LC50 (Rat): 20 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit): > 10,000 mg/kg
Method: OECD Test Guideline 402
GLP: no

C6-12-Alkylalcohol ethoxylate:

Acute oral toxicity : Assessment: The component/mixture is moderately toxic after single ingestion.

allyl hexanoate:

Acute oral toxicity : LD50 (Rat, male and female): 218 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : Test atmosphere: dust/mist
Assessment: The component/mixture is toxic after short term inhalation.

Acute dermal toxicity : LD50 (Rabbit, male and female): 820 mg/kg
Method: OECD Test Guideline 402

Eucalyptus globulus, ext.:

Acute oral toxicity : LD50: 3,320 mg/kg
Method: QSAR WoE

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

coumarin:

Acute oral toxicity : LD50 (Rat, male and female): ca. 680 mg/kg
Method: OECD Test Guideline 401

isopentyl acetate:

Acute oral toxicity : LD50 (Rat): 16,600 mg/kg

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Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Components:

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

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

p-menth-1-en-8-yl acetate:

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

Terpineol:

Species: Rabbit
Method: OECD Test Guideline 404
Result: Irritating to skin.

Citral terpenes:

Species: Rabbit
Result: Irritating to skin.

docusate sodium:

Species: Rabbit
Method: OECD Test Guideline 404
Result: Irritating to skin.

allyl hexanoate:

Species: Model
Method: OECD Test Guideline 431
Result: No skin irritation

Eucalyptus globulus, ext.:

Assessment: Irritating to skin.

coumarin:

Species: Rabbit
Method: Regulation (EC) No. 440/2008, Annex, B.4
Result: No skin irritation

isopentyl acetate:

Result: Repeated exposure may cause skin dryness or cracking.



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Remarks: slightly irritant

Serious eye damage/eye irritation

Causes serious eye irritation.

Components:

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

Species: Rabbit
Method: OECD Test Guideline 405
Result: No eye irritation

p-menth-1-en-8-yl acetate:

Species: Chicken eye
Method: OECD Test Guideline 438
Result: No eye irritation

Terpineol:

Species: Rabbit
Method: OECD Test Guideline 405
Result: Irritating to eyes.

Citral terpenes:

Assessment: Irritating to eyes.

docusate sodium:

Species: Rabbit
Method: OECD Test Guideline 405
Result: Risk of serious damage to eyes.

C6-12-Alkylalcohol ethoxylate:

Assessment: Risk of serious damage to eyes.

allyl hexanoate:

Species: Rabbit
Method: OECD Test Guideline 405
Result: No eye irritation

Eucalyptus globulus, ext.:

Species: Rabbit
Method: OECD Test Guideline 405
Result: No eye irritation

coumarin:

Species: Rabbit
Result: No eye irritation

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isopentyl acetate:

Remarks: slightly irritant

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Components:

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

Exposure routes: Dermal

Species: Mouse

Method: OECD Test Guideline 429

Result: May cause sensitisation by skin contact.

p-menth-1-en-8-yl acetate:

Exposure routes: Skin contact

Species: Mouse

Method: OECD Test Guideline 429

Result: Did not cause sensitisation on laboratory animals.

GLP: yes

Terpineol:

Exposure routes: Skin contact

Species: Guinea pig

Method: OECD Test Guideline 406

Result: Did not cause sensitisation on laboratory animals.

GLP: yes

docosate sodium:

Exposure routes: Skin contact

Species: Guinea pig

Result: Did not cause sensitisation on laboratory animals.

allyl hexanoate:

Exposure routes: Skin contact

Species: Guinea pig

Method: OECD Test Guideline 406

Result: Did not cause sensitisation on laboratory animals.

GLP: yes

Eucalyptus globulus, ext.:

Assessment: The product is a skin sensitiser, sub-category 1B.



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coumarin:

Assessment: May cause sensitisation by skin contact.

isopentyl acetate:

Exposure routes: Skin contact

Species: Human

Result: Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity

Not classified based on available information.

Components:

p-menth-1-en-8-yl acetate:

Genotoxicity in vitro : Remarks: Not mutagenic in a standard battery of genetic toxicological tests.

Terpineol:

Genotoxicity in vitro : Test system: Mammalian-Animal
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: no

Test system: Bacteria
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes

Test system: Mammalian-Human
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
GLP: yes

docusate sodium:

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

Test Type: In vitro mammalian cell gene mutation test
Test system: mouse lymphoma cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476

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Result: negative
GLP: yes

allyl hexanoate:

Genotoxicity in vitro : Remarks: Not mutagenic in a standard battery of genetic toxicological tests.

isopentyl acetate:

Genotoxicity in vitro : Test system: Mammalian-Animal
Method: OECD Test Guideline 473
Result: negative

Test system: Bacteria
Method: OECD Test Guideline 471
Result: negative

Carcinogenicity

Not classified based on available information.

Components:

docosate sodium:

Species: Rat, (male)
Application Route: Oral
Exposure time: 2 Years
NOAEL: 500 mg/kg bw/day
Method: OECD Test Guideline 451
Result: negative

Reproductive toxicity

Not classified based on available information.

Components:

p-menth-1-en-8-yl acetate:

Effects on fertility : Remarks: No known significant effects or critical hazards.

Terpineol:

Effects on fertility : Species: Rat, male and female
Application Route: Oral
Dose: 250 milligram per kilogram
Duration of Single Treatment: 6 Weeks
Frequency of Treatment: 7 days/week
Symptoms: NOAEL
Method: OECD Test Guideline 422
GLP: yes

docosate sodium:

Effects on foetal develop- : Species: Rat, female



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ment

Application Route: Oral
Dose: 1074 - 1988 milligram per kilogram
Duration of Single Treatment: 10 d
General Toxicity Maternal: NOAEL: 1,074 mg/kg body weight
Developmental Toxicity: NOAEL: 1,074 mg/kg body weight
Method: OECD Test Guideline 414
Result: No teratogenic potential

allyl hexanoate:

Effects on foetal development : Remarks: No known significant effects or critical hazards.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

p-menth-1-en-8-yl acetate:

Remarks: No known significant effects or critical hazards.

Terpineol:

Species: Rat, male and female
NOAEL: 250 mg/kg
Application Route: Oral
Exposure time: 6 Weeks
Method: OECD Test Guideline 422
GLP: yes
Remarks: Subacute toxicity

docosate sodium:

Species: Rat, male and female
NOAEL: > 1,000 mg/kg
Application Route: Oral
Exposure time: 90 d
Number of exposures: daily
Dose: 100 - 300 - 1000 mg/kg
Method: OECD Test Guideline 408
GLP: yes
Remarks: Subchronic toxicity

allyl hexanoate:

Remarks: No known significant effects or critical hazards.

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Aspiration toxicity

Not classified based on available information.

Components:

Eucalyptus globulus, ext.:

May be fatal if swallowed and enters airways.

Further information

Product:

Remarks: No data available

SECTION 12: Ecological information

12.1 Toxicity

Components:

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

- Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 0.72 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
Remarks: Fresh water
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.307 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
Remarks: Fresh water
- Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 0.32 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: Fresh water
- EC10 (Pseudokirchneriella subcapitata (green algae)): 0.174 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: Fresh water
- M-Factor (Short-term (acute) aquatic hazard) : 1
- Toxicity to fish (Chronic toxicity) : NOEC: 0.059 mg/l
Exposure time: 8 d
Species: Pimephales promelas (fathead minnow)
Method: OECD Test Guideline 212
Remarks: Fresh water



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Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0.08 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 211
Remarks: Fresh water

p-menth-1-en-8-yl acetate:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 11 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
GLP: yes
Remarks: Fresh water

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 10 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
GLP: yes
Remarks: Fresh water

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): 6.9 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
GLP: yes
Remarks: Fresh water

Terpineol:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 62 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
GLP: yes
Remarks: Fresh water

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 73 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
GLP: yes
Remarks: Fresh water

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (microalgae)): 68 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
GLP: yes
Remarks: Fresh water

docusate sodium:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 49 mg/l
Exposure time: 96 h
Test Type: semi-static test
Analytical monitoring: yes
Method: OECD Test Guideline 203
GLP: yes

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according to Regulation (EC) No. 1907/2006

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Remarks: Fresh water

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 34.9 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
Remarks: Fresh water

Toxicity to algae : EC10 (*Desmodesmus subspicatus* (green algae)): 22 mg/l
Exposure time: 72 h
Analytical monitoring: no
Method: Regulation (EC) No. 440/2008, Annex, C.3
GLP: yes
Remarks: Fresh water

EC50 (*Desmodesmus subspicatus* (green algae)): 82.5 mg/l
Exposure time: 72 h
Analytical monitoring: no
Method: Regulation (EC) No. 440/2008, Annex, C.3
GLP: yes
Remarks: Fresh water

allyl hexanoate:

Toxicity to fish : LC50 (*Danio rerio* (zebra fish)): 0.117 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
GLP: yes
Remarks: Fresh water

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 2 mg/l
Exposure time: 48 h
Method: Regulation (EC) No. 440/2008, Annex, C.2
GLP: yes
Remarks: Fresh water

Toxicity to algae : EC50 (*Desmodesmus subspicatus* (green algae)): > 4.6 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
GLP: yes
Remarks: Fresh water

NOEC (*Desmodesmus subspicatus* (green algae)): 0.158 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
GLP: yes
Remarks: Fresh water

M-Factor (Short-term (acute) aquatic hazard) : 1

Eucalyptus globulus, ext.:



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Toxicity to fish : LC50 (Fish): 18 mg/l
Exposure time: 96 h
Remarks: Fresh water
No toxicity at the limit of solubility

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 1.02 mg/l
Exposure time: 48 h
Remarks: Fresh water

Toxicity to algae : ErC50 (algae): 1.64 mg/l
Exposure time: 72 h
Remarks: Fresh water

NOEC (algae): 0.88 mg/l
Exposure time: 72 h
Remarks: Fresh water

coumarin:

Toxicity to fish : LC50 (Fish): 1.324 mg/l
Exposure time: 96 h
Method: QSAR
Remarks: Fresh water

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 8.012 mg/l
Exposure time: 48 h
Method: QSAR
Remarks: Fresh water

Toxicity to algae : EC50 (algae): 1.452 mg/l
Exposure time: 96 h
Method: QSAR
Remarks: Fresh water

NOEC (algae): 0.408 mg/l
Exposure time: 96 h
Method: QSAR
Remarks: Fresh water

Toxicity to fish (Chronic toxicity) : NOEC: 0.119 mg/l
Exposure time: 60 Days
Method: QSAR
Remarks: Fresh water

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0.448 mg/l
Exposure time: 21 Days
Method: QSAR
Remarks: Fresh water

isopentyl acetate:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 131 mg/l
Exposure time: 48 h

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Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 205 mg/l
Exposure time: 24 h

Toxicity to algae : ErC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 201

NOEC (Desmodesmus subspicatus (green algae)): > 100 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

12.2 Persistence and degradability

Components:

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

Biodegradability : Result: Readily biodegradable.
Biodegradation: 80 %
Exposure time: 28 d
Method: OECD Test Guideline 301D

p-menth-1-en-8-yl acetate:

Biodegradability : Test Type: aerobic
Result: Readily biodegradable.
Biodegradation: 63 %
Exposure time: 28 d
Method: OECD Test Guideline 301F
GLP: yes

Terpineol:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 87 %
Exposure time: 28 d
Method: OECD Test Guideline 301F

docusate sodium:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 95 %
Exposure time: 28 d
Method: OECD Test Guideline 301A

allyl hexanoate:

Biodegradability : Test Type: aerobic
Result: Readily biodegradable.
Biodegradation: 70 %
Exposure time: 28 d
Method: OECD Test Guideline 301F
GLP: yes



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Eucalyptus globulus, ext.:

Biodegradability : Result: rapidly biodegradable

coumarin:

Biodegradability : Test Type: aerobic
Result: Readily biodegradable.
Biodegradation: 100 %
Exposure time: 28 d
Method: OECD Test Guideline 301C

isopentyl acetate:

Biodegradability : Result: Readily biodegradable.

12.3 Bioaccumulative potential

Components:

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

Partition coefficient: n-octanol/water : log Pow: 4.38
Method: OECD Test Guideline 117

p-menth-1-en-8-yl acetate:

Partition coefficient: n-octanol/water : log Pow: 4.4
Method: OECD Test Guideline 117

allyl hexanoate:

Partition coefficient: n-octanol/water : log Pow: 3.191
Method: OECD Test Guideline 107

Eucalyptus globulus, ext.:

Partition coefficient: n-octanol/water : log Pow: 4.35 (25 °C)
Method: calculated

coumarin:

Partition coefficient: n-octanol/water : log Pow: 1.39

isopentyl acetate:

Partition coefficient: n-octanol/water : log Pow: 2.25

12.4 Mobility in soil

No data available

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12.5 Results of PBT and vPvB assessment

Product:

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

12.6 Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.



SECTION 14: Transport information

14.1 UN number

ADN	: UN 3082
ADR	: UN 3082
RID	: UN 3082
IMDG	: UN 3082
IATA	: UN 3082

14.2 UN proper shipping name

ADN	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TERPENES)
ADR	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TERPENES)
RID	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

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IMDG : N.O.S. (TERPENES)
: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TERPENES)

IATA : Environmentally hazardous substance, liquid, n.o.s. (TERPENES)

14.3 Transport hazard class(es)

ADN : 9
ADR : 9
RID : 9
IMDG : 9
IATA : 9

14.4 Packing group

ADN
Packing group : III
Classification Code : M6
Hazard Identification Number : 90
Labels : 9



ADR
Packing group : III
Classification Code : M6
Hazard Identification Number : 90
Labels : 9



RID
Packing group : III
Classification Code : M6
Hazard Identification Number : 90
Labels : 9



IMDG

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Packing group : III
Labels : 9



IATA (Cargo)
Packing instruction (cargo aircraft) : 964: 450.00 L
Packing group : III
Labels : 9



IATA (Passenger)
Packing instruction (passenger aircraft) : 964: 450.00 L
Packing group : III
Labels : 9



14.5 Environmental hazards

ADN
Environmentally hazardous : yes

ADR
Environmentally hazardous : yes

RID
Environmentally hazardous : yes

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IMDG
Marine pollutant : yes

IATA (Passenger)
Environmentally hazardous : yes

IATA (Cargo)
Environmentally hazardous : yes

14.6 Special precautions for user

Hazard statements : Environmentally hazardous substance.
Irritating to the eyes.
Keep separated from foodstuffs.

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

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors : Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

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Council Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors : Neither banned nor restricted

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Conditions of restriction for the following entries should be considered: Number on list: 3

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

		Quantity 1	Quantity 2
E2	ENVIRONMENTAL HAZARDS	200 t	500 t

Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

15.2 Chemical safety assessment

not applicable



SECTION 16: Other information

Full text of H-Statements

H226 : Flammable liquid and vapour.
H301 : Toxic if swallowed.
H302 : Harmful if swallowed.
H304 : May be fatal if swallowed and enters airways.
H311 : Toxic in contact with skin.
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.
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.

Full text of other abbreviations

Acute Tox. : Acute toxicity
Aquatic Acute : Short-term (acute) aquatic hazard
Aquatic Chronic : Long-term (chronic) aquatic hazard
Asp. Tox. : Aspiration hazard
Eye Dam. : Serious eye damage
Eye Irrit. : Eye irritation
Flam. Liq. : Flammable liquids

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Skin Irrit.	:	Skin irritation
Skin Sens.	:	Skin sensitisation
2000/39/EC	:	Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
GB EH40	:	UK. EH40 WEL - Workplace Exposure Limits
2000/39/EC / TWA	:	Limit Value - eight hours
2000/39/EC / STEL	:	Short term exposure limit
GB EH40 / TWA	:	Long-term exposure limit (8-hour TWA reference period)
GB EH40 / STEL	:	Short-term exposure limit (15-minute reference period)

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

Further information

Classification of the mixture:

Eye Irrit. 2	H319
Skin Sens. 1	H317
Aquatic Chronic 2	H411

Classification procedure:

Calculation method
Calculation method
Calculation method

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet and its Annex [if required according to Regulation (EC) 1907/2006 (REACH)] is to describe the products in terms of their safety requirements. The given details do not imply any guarantee concerning the composition, properties or performance.