

- myrcenyl acetate
- 1-methyl-4-(1-methylethyl)-1,4-cyclo-
- 2-mentha-1,4(8)-diene

2.3 Other hazards

No data available

3. Composition/information on ingredients

3.2 Mixtures

/Hazardous components/

Chemical Name	CAS-Nr. REACH reg.	(REGULATION (EC) No 1272/2008)	Concentration [%]
camphene	79-92-5 01-2119446293-40-xxxx	H228Flammable solids (FS)1, 2 H400Hazardous to the aquatic environment, acute hazard (EH A) Category 1 H410Hazardous to the aquatic environment, long-term hazard (EH C)Category 1	0,1 - 1%
citral	5392-40-5 01-2119462829-23-xxxx	H315Skin corrosion/irritation (SCI)Category 2 H317Sensitization, skin (SS 1 / 1B) Category 1 H319Serious eye damage/eye irritation (EDI)Category 2A	0,1 - 1%
limonene	5989-27-5 01-2119529223-47-xxxx	H226Flammable liquids (FL)Category 3 H304Aspiration hazard (AH)Category 1 H315Skin corrosion/irritation (SCI)Category 2 H317Sensitization, skin (SS 1 / 1B) Category 1 H400Hazardous to the aquatic environment, acute hazard (EH A) Category 1 H410Hazardous to the aquatic environment, long-term hazard (EH C) Category 1	10 - 25%
linalool	78-70-6 01-2119474016-42-xxxx	H315Skin corrosion/irritation (SCI)Category 2 H317Sensitization, skin (SS 1 / 1B) Category 1 H319Serious eye damage/eye irritation (EDI)Category 2A	5 - 10%
linalyl acetate	115-95-7 01-2119454789-19-xxxx	H315Skin corrosion/irritation (SCI)Category 2 H317Sensitization, skin (SS 1 / 1B)Category 1	10 - 25%
1,6-octadiene,7-methyl-3-methylene-	123-35-3 01-2119514321-56-xxxx	H226Flammable liquids (FL)Category 3 H304Aspiration hazard (AH)Category 1 H315Skin corrosion/irritation (SCI)Category 2 H319Serious eye damage/eye irritation (EDI)Category 2A H400Hazardous to the aquatic environment, acute hazard (EH A) Category 1 H411Hazardous to the aquatic environment, long-term hazard (EH C) Category 2	0,1 - 1%
2,6-octadien-1-ol, 3,7-dimethyl	106-25-2 01-2119983244-33-xxxx	H315Skin corrosion/irritation (SCI)Category 2 H317Sensitization, skin (SS 1 / 1B) Category 1 H319Serious eye damage/eye irritation (EDI)Category 2A	0,1 - 1%
alpha-pinene	80-56-8 01-2119519223-49-xxxx	H226Flammable liquids (FL)Category 3 H302Acute toxicity, oral (ATO)Category 4 H304Aspiration hazard (AH)Category 1 H315Skin corrosion/irritation (SCI)Category 2 H317Sensitization, skin (SS 1 / 1B) Category 1 H400Hazardous to the aquatic environment, acute hazard (EH A) Category 1 H410Hazardous to the aquatic environment, long-term hazard (EH C) Category 1	1 - 5%
1-beta-pinene	18172-67-3 01-2119519230-54-xxxx	H226Flammable liquids (FL)Category 3 H304Aspiration hazard (AH)Category 1 H315Skin corrosion/irritation (SCI)Category 2 H317Sensitization, skin (SS 1 / 1B) Category 1 H400Hazardous to the aquatic environment, acute hazard (EH A) Category 1 H410Hazardous to the aquatic environment, long-term hazard (EH C) Category 1	1 - 5%
myrcenyl acetate	1118-39-4 01-2120525254-63-xxxx	H315Skin corrosion/irritation (SCI)Category 2 H317Sensitization, skin (SS 1 / 1B) Category 1 H411Hazardous to the aquatic environment, long-term hazard (EH C) Category 2	0,1 - 1%
1-methyl-4-(1-methylethyl)-1,4-cyclo-	99-85-4 01-2120780478-40-xxxx	H226 Flammable liquids (FL) Category 3 H304 Aspiration hazard (AH) Categorou1 H361Reproductive toxicity (REP) 2	1 - 5%
2-mentha-1,4(8)-diene	586-62-9 01-2119982325-32-xxxx	H304Aspiration hazard (AH)Category 1 H317Sensitization, skin (SS 1 / 1B) Category 1 H400Hazardous to the aquatic environment, acute hazard (EH A) Category 1 H410Hazardous to the aquatic environment, long-term hazard (EH C) Category 1	0,1 - 1%

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. First aid measures

4.1 Description of first aid measures

General advice	Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance. Do not leave affected persons 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 on skin, rinse well with water.
In case of eye contact	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. 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. Do NOT induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Take victim immediately to hospital.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms	no data available
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4.3 Indication of any immediate medical attention and special treatment needed

Treatment	no data available
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5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media - Use firefighting measures that suit the environment.

Unsuitable extinguishing media High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting

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

5.3 Advice for firefighters

Special protective equipment for fire-fighters
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.

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 materials 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.
Collect mechanically. Reuse if possible or dispose of as required by national and local regulations (see section 13).

6.4 Reference to other sections

Not applicable

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling	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. To avoid spills during handling keep bottle on a metal tray. Dispose of rinse water in accordance with local and national regulations.
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Advice on protection against fire and explosion
Normal measures for preventive fire protection.

Temperature classno data available
Fire-fighting classno data available
Dust explosion classno data available

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 resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards.
Further information on storage conditions	no data available
Advice on common storage	no data available
German storage class	no data available
Other data	No decomposition if stored and applied as directed.

7.3 Specific end uses

Specific use(s)	no data available
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8. Exposure controls/personal protection

8.1 Control parameters

LIMONENE

Workingprogram :WerkprogrammaOvernamebuitenlandse Limits (dossier 11) Limits : 110 milligram per kubieke meter Publication : 38975

Workingprogram : Limits Duitsland-AGS Limits : 20 parts per million Publication : TRGS 900

Workingprogram : Limits Zwitserland Limits : 20 parts per million Publication : SuvaProGrenzwerte am Arbeitsplatz 2009

Workingprogram : Limits Noorwegen 2010 Limits : 25 parts per million Publication : Administrative normer for forurensningiarbeidsatmosfaere; 13. uitgavenovember 2009; Arbeidstilsynet

Workingprogram : Limits Noorwegen 2010 Limits : 25 parts per million Publication : Administrative normer for forurensningiarbeidsatmosfaere; 13. uitgavenovember 2009; Arbeidstilsynet

Workingprogram : Limits Finland 2007 Limits : 25 parts per million Publication : Julkaisuja 2004:4

PINENE ALPHA

Workingprogram : Limits België 2009 Limits : 20 parts per million Publication : BelgischStaatsblad 19 mei 2009; N. 2009- -2065

Workingprogram : Limits Zweden 2005 Limits : 25 parts per million Publication : AFS 2005:17

Workingprogram : Limits Noorwegen 2010 Limits : 25 parts per million Publication : Administrative normer for forurensningi arbeidsatmosfaere; 13. utgave november 2009; Arbeidstilsynet

PINENE BETA

Workingprogram : Limits België 2009 Limits : 20 parts per million Publication : BelgischStaatsblad 19 mei 2009; N. 2009- -2065

Workingprogram : Limits Noorwegen 2010 Limits : 25 parts per million Publication : Administrative normer for forurensningi arbeidsatmosfaere; 13. utgave november 2009; Arbeidstilsynet

Workingprogram : Limits Zweden 2005 Limits : 25 parts per million Publication : AFS 2005:17

8.2 Exposure controls

Personal protective equipment

Hand protection	Use protective gloves. Gloves must comply with standard EN 374-1/2/3. Suitable material: Nitrile Breakthrough time (maximum wearing time):>30 min. Thickness of the material: 0.13 mm
Eye protection	Eye wash bottle with pure water Tightly fitting, approved safety goggles with side shields with standard EN166. Wear face-shield and protective suit for abnormal processing problems.
Skin and body protection	impervious clothing

Hygiene measures Choose body protection according to the amount and concentration of the dangerous substance at the work place.
 When using do not eat or drink.
 When using do not smoke.
 Wash hands before breaks and at the end of workday.

Environmental exposure controls

General advice 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.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form: Solid
 Color: Light Orange
 Odor: Scented
 Odor threshold: Not determined
 pH-value: Not applicable.
 Melting point/Melting range: > 46 °C
 Boiling point/Boiling range: No information available
 Flash point: No information available
 Ignition temperature: No information available
 Danger of explosion: Product does not present an explosion hazard.
 Explosion limits:
 Lower: No information available
 Upper: No information available
 Vapor pressure: No information available
 Density at 20 °C: appr. 0.90 g/cm³
 Bulk density at 20 °C: No information available
 Solubility in / Miscibility with water: No information available
 Viscosity: No information available
 Dynamic: No information available.
 Kinematic: No information available

10. Stability and reactivity

10.1 Reactivity None

10.2 Chemical stability The product is chemically stable.

10.3 Possibility of hazardous reactions

Hazardous reactions No decomposition if stored and applied as directed.

10.4 Conditions to avoid

Conditions to avoid no data available

10.5 Incompatible materials

Materials to avoid no data available

10.6 Hazardous decomposition products

Hazardous decomposition products no data available
 Thermal decomposition no data available

11. Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity Estimated Acute toxicity Doses mg/kg : 4473
 Method Calculation method

Acute inhalation toxicity Estimated Acute toxicity Doses mg/l :
 Method Calculation method No data is available on the product itself.

Acute dermal toxicity Estimated Acute toxicity Doses mg/kg : 5198
 Method Calculation method

Acute toxicity (other routes of administration) No data is available on the product itself.

Skin corrosion/irritation

Skin irritation May cause skin irritation and / or dermatitis.

Serious eye damage/eye irritation

Eye irritation No data is available on the product itself.

Serious eye damage/eye irritation

Eye irritation May cause irreversible eye damage.

Respiratory or skin sensitization

Sensitization No data is available on the product itself.

Germ cell mutagenicity

Germ cell mutagenicity No data is available on the product itself.

Carcinogenicity

Carcinogenicity No data is available on the product itself.

Reproductive toxicity

Reproductive toxicity No data is available on the product itself.

Target Organ Systemic Toxicant - Single exposure

Target Organ Systemic Toxicant - Single exposure
 No data is available on the product itself.

Target Organ Systemic Toxicant - Repeated exposure

Target Organ Systemic Toxicant - Repeated exposure
 No data is available on the product itself.

Aspiration hazard

Aspiration toxicity No data is available on the product itself.

Photo toxicity

Photo toxicity No data is available on the product itself.

Further information

no data available

12. Ecological information

12.1 Toxicity

Toxicity to fish no data available
 Toxicity to daphnia and other aquatic invertebrates. no data available
 Toxicity to algae no data available

12.2 Persistence and degradability

Biodegradability no data available

12.3 Bio accumulative potential

Bioaccumulation no data available

12.4 Mobility in soil

Mobility no data available
 Distribution among environmental compartments no data available
 Additional advice Environmental fate and pathways no data available
 Physical-chemical removability no data available

12.5 Results of PBT and vPvB assessment

no data available

12.6 Other adverse effects

Biochemical Oxygen Demand (BOD) no data available
 Dissolved organic carbon (DOC) no data available
 Chemical Oxygen Demand (COD) no data available
 Adsorbed organic bound halogens (AOX) no data available
 Additional ecological information

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

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.
 Dispose of in accordance with local regulations.

14. Transport information

ADR/RID/AND	Not regulated
IATA/ICAO	Not regulated
IMDG	Not regulated

15. Regulatory information

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

ABM Cat	Water hazard class NL (ABM) Cat A2
WGK	WGK3

15.2 Chemical Safety Assessment

no data available

16. Other information

Full text of H-Statements referred to under sections 2 and 3.

H226 Flammable liquid and vapour.
H228 Flammable solid.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
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.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.