

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

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## Duftgranulat Spirit

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

#### 1.1. Product identifier

Trade name/designation:

Duftgranulat Spirit

Article No.:

318

UFI:

29NQ-XACK-Q9N8-3Y69

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

Use of the substance/mixture:

Duftgranulat

#### 1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

Otto Oehme GmbH

FEA

Industriestr. 20

90584 Allersberg

Germany

Telephone: 09176/98050

Telefax: 09176/980555

E-mail: Info@Oehme-Lorito.de

Website: www.Oehme-Lorito.de

#### 1.4. Emergency telephone number

No data available

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Skin corrosion/irritation ( <i>Skin Irrit. 2</i> )	H315: Causes skin irritation.	
Respiratory or skin sensitisation ( <i>Skin Sens. 1</i> )	H317: May cause an allergic skin reaction.	
Hazardous to the aquatic environment ( <i>Aquatic Chronic 3</i> )	H412: Harmful to aquatic life with long lasting effects.	

#### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



GHS07

Exclamation mark

Signal word: Warning

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### Hazard components for labelling:

(R)-p-Mentha-1,8-dien; 2-Methylundecanal; alpha PINEN; beta PINEN

#### Hazard statements for health hazards

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.

#### Hazard statements for environmental hazards

H412	Harmful to aquatic life with long lasting effects.
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#### Supplemental hazard information

EUH208	Contains beta PINEN, 1,8-CINEOL, 2-methylundecanal, alpha PINEN. May produce an allergic reaction.
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#### Precautionary statements Prevention

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
------	---

#### Precautionary statements Response

P302 + P352	IF ON SKIN: Wash with plenty of water/....
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.

### 2.3. Other hazards

No data available

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 5989-27-5 EC No.: 227-813-5 REACH No.: 01-2119529223-47-XXXX	<b>(R)-p-mentha-1,8-diene</b> Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Asp. Tox. 1 (H304), Flam. Liq. 3 (H226), Skin Irrit. 2 (H315), Skin Sens. 1B (H317) Danger	4 - < 8.19 weight-%
CAS No.: 8000-41-7 EC No.: 232-282-8 REACH No.: 01-2119553062-49-XXXX	<b>TERPINEOL</b> Eye Irrit. 2 (H319), Skin Irrit. 2 (H315) Warning	1 - < 2.5 weight-%
CAS No.: 123-35-3 EC No.: 204-622-5 REACH No.: 01-2119514321-56-XXXX	<b>7-METHYL-3-METHYLDIENEOCTA-1,6-DIENE</b> Aquatic Acute 1 (H400), Aquatic Chronic 2 (H411), Asp. Tox. 1 (H304), Eye Irrit. 2 (H319), Flam. Liq. 3 (H226), Skin Irrit. 2 (H315) Danger	0 - < 0.25 weight-%
CAS No.: 110-41-8 EC No.: 203-765-0 REACH No.: 01-2119969443-29-XXXX	<b>2-methylundecanal</b> Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Skin Irrit. 2 (H315), Skin Sens. 1B (H317) Warning	0 - < 0.25 weight-%
CAS No.: 80-56-8 EC No.: 201-291-9 REACH No.: 01-2119519223-49-XXXX	<b>alpha PINEN</b> Acute Tox. 4 (H302), Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Asp. Tox. 1 (H304), Flam. Liq. 3 (H226), Skin Irrit. 2 (H315), Skin Sens. 1B (H317) Danger	0 - < 0.25 weight-%
CAS No.: 127-91-3 EC No.: 204-872-5 REACH No.: 01-2119519230-54-XXXX	<b>beta PINEN</b> Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Asp. Tox. 1 (H304), Flam. Liq. 3 (H226), Skin Irrit. 2 (H315), Skin Sens. 1 (H317) Danger	0 - < 0.25 weight-%
CAS No.: 470-82-6 EC No.: 207-431-5 REACH No.: 01-2119967772-24-XXXX	<b>1,8-CINEOL</b> Flam. Liq. 3 (H226), Skin Sens. 1 (H317) Warning	0 - ≤ 0.249975 weight-%

Full text of H- and EUH-phrases: see section 16.

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### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

**General information:**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended. Remove victim out of the danger area. Remove contaminated, saturated clothing.

**Following inhalation:**

Provide fresh air. In case of respiratory tract irritation, consult a physician.

**In case of skin contact:**

If skin irritation or rash occurs: Get medical advice/attention. After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing.

**After eye contact:**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Following ingestion:**

Rinse mouth. Get medical advice/attention if you feel unwell. Let 1 glass of water be drunken in little sips (dilution effect).

**Self-protection of the first aider:**

Use personal protection equipment.

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

Skin corrosion/irritation Allergic reactions

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

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

**Suitable extinguishing media:**

Adjust to the environment Co-ordinate fire-fighting measures to the fire surroundings.

**Unsuitable extinguishing media:**

Full water jet

#### 5.2. Special hazards arising from the substance or mixture

Non-flammable. In case of fire hazardous combustion gases or vapors possible The product itself does not burn.

**Hazardous combustion products:**

In case of fire: Gases/vapours, toxic

#### 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

#### 5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

**Personal precautions:**

Remove persons to safety. Avoid dust formation.

**Protective equipment:**

Wear protective gloves/protective clothing/eye protection/face protection.

##### 6.1.2. For emergency responders

**Personal protection equipment:**

Personal protection equipment: see section 8

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### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

### 6.3. Methods and material for containment and cleaning up

#### For containment:

Collect spillage. Measures to prevent aerosol and dust generation Wet clean or vacuum up solids.

#### For cleaning up:

Water (with cleaning agent)

### 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

### 6.5. Additional information

Use appropriate container to avoid environmental contamination.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Protective measures

#### Advices on safe handling:

Wear personal protection equipment (refer to section 8).

#### Measures to prevent aerosol and dust generation:

Dust should be exhausted directly at the point of origin.

#### Advices on general occupational hygiene

When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place.

**Storage class (TRGS 510, Germany):** 13 - Non-combustible solids that cannot be assigned to any of the above storage classes

### 7.3. Specific end use(s)

No data available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No data available

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

No data available

#### 8.2.2. Personal protection equipment

##### Eye/face protection:

If there is a risk of eye contact. Eye glasses with side protection EN 166

##### Skin protection:

Tested protective gloves must be worn EN ISO 374 Suitable material: Breakthrough time: min In the case of wanting to use the gloves again, clean them before taking off and air them well.

##### Respiratory protection:

Usually no personal respiratory protection necessary. Particle filter device (EN 143)

#### 8.2.3. Environmental exposure controls

No data available

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Appearance

**Physical state:** wax

**Colour:** white

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**Odour:** scented

### Safety relevant basis data

Parameter	Value	① Method ② Remark
pH	<i>not applicable</i>	
Melting point	<i>No data available</i>	
Freezing point	<i>No data available</i>	
Initial boiling point and boiling range	<i>No data available</i>	
Flash point	<i>not applicable</i>	
Evaporation rate	<i>No data available</i>	
Auto-ignition temperature	<i>not applicable</i>	
Vapour pressure	<i>No data available</i>	
Density	<i>No data available</i>	
Bulk density	<i>No data available</i>	
Water solubility	Immiscible	

### particle characteristics:

No data available

### 9.2. Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No specific test data related to reactivity available for this product or its ingredients. The product itself does not burn.

### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

No known hazardous reactions.

### 10.4. Conditions to avoid

Avoid high temperatures or direct sunlight.

### 10.5. Incompatible materials

No data available

### 10.6. Hazardous decomposition products

In case of fire: Gases/vapours, toxic

## SECTION 11: Toxicological information

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

<b>(R)-p-mentha-1,8-diene</b> CAS No.: 5989-27-5 EC No.: 227-813-5
<b>LD<sub>50</sub> oral:</b> 2,000 mg/kg (Ratte) OECD 423
<b>LD<sub>50</sub> dermal:</b> 5,000 mg/kg (Kaninchen)
<b>7-METHYL-3-METHYLDIENE OCTA-1,6-DIENE</b> CAS No.: 123-35-3 EC No.: 204-622-5
<b>LD<sub>50</sub> oral:</b> >5,000 mg/kg (rat) OECD Guideline 401 (Acute Oral Toxicity)
<b>beta PINEN</b> CAS No.: 127-91-3 EC No.: 204-872-5
<b>LD<sub>50</sub> oral:</b> 4,700 mg/kg

### Acute oral toxicity:

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

### Acute dermal toxicity:

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

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### Acute inhalation toxicity:

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

### Skin corrosion/irritation:

Causes skin irritation.

### Serious eye damage/irritation:

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

### Respiratory or skin sensitisation:

May cause an allergic skin reaction. Contains beta PINEN, 1,8-CINEOL, 2-methylundecanal, alpha PINEN.  
May produce an allergic reaction.

### Germ cell mutagenicity:

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

### Carcinogenicity:

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

### Reproductive toxicity:

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

### STOT-single exposure:

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

### STOT-repeated exposure:

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

### Aspiration hazard:

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

### Additional information:

No data available

## 11.2. Information on other hazards

No data available

## SECTION 12: Ecological information

### 12.1. Toxicity

<b>(R)-p-mentha-1,8-diene</b> CAS No.: 5989-27-5 EC No.: 227-813-5
<b>LC<sub>50</sub></b> : 7 mg/L
<b>LC<sub>50</sub></b> : 0.46 mg/L 4 d (fish, Danio rerio, Oncorhynchus mykiss, Lepomis macrochirus, Pimephales promelas, Oryzias latipes, Leuciscus idus)
<b>EC<sub>50</sub></b> : 0.25 mg/L 2 d (Algae/water plant, Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum))
<b>EC<sub>50</sub></b> : 0.214 mg/L 3 d (Algae/water plant, Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum))
<b>EC<sub>50</sub></b> : 0.688 mg/L 4 d (fish, Pimephales promelas) OECD Guideline 203 (Fish, Acute Toxicity Test)
<b>EC<sub>50</sub></b> : 0.307 mg/L 2 d (crustaceans, Daphnia magna)
<b>NOEC</b> : 0.09 mg/L 2 d (Algae/water plant, Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum))
<b>NOEC</b> : 0.08 mg/L 28 d (fish, fish spp.) OECD Guideline 210 (Fish, Early-Life Stage Toxicity Test)
<b>NOEC</b> : 0.08 mg/L 21 d (crustaceans, Daphnia magna) OECD Guideline 211 (Daphnia magna Reproduction Test)
<b>ErC<sub>50</sub></b> : 0.32 mg/L (Algae/water plant)
<b>LOEC</b> : 0.19 mg/L
<b>LOEC</b> : 0.173 mg/L 21 d (crustaceans, Daphnia magna) OECD Guideline 211 (Daphnia magna Reproduction Test)

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**1,8-CINEOL** CAS No.: 470-82-6 EC No.: 207-431-5

**LC<sub>50</sub>**: 57 mg/L 4 d (fish, *Oncorhynchus mykiss* (previous name: *Salmo gairdneri*))

**EC<sub>50</sub>**: >74 mg/L 3 d (Algae/water plant, *Pseudokirchneriella subcapitata* (previous names: *Raphidocelis subcapitata*, *Selenastrum capricornutum*))

**EC<sub>50</sub>**: >74 mg/L 4 d (Algae/water plant, *Pseudokirchneriella subcapitata* (previous names: *Raphidocelis subcapitata*, *Selenastrum capricornutum*))

**EC<sub>50</sub>**: >100 mg/L 2 d (crustaceans, *Daphnia magna*)

**NOEC**: 18 mg/L 3 d (Algae/water plant, *Pseudokirchneriella subcapitata* (previous names: *Raphidocelis subcapitata*, *Selenastrum capricornutum*))

**NOEC**: 9.1 mg/L 4 d (Algae/water plant, *Pseudokirchneriella subcapitata* (previous names: *Raphidocelis subcapitata*, *Selenastrum capricornutum*))

**NOEC**: 32 mg/L 4 d (fish, *Oncorhynchus mykiss* (previous name: *Salmo gairdneri*))

**NOEC**: 100 mg/L 2 d (crustaceans, *Daphnia magna*)

**7-METHYL-3-METHYLDIENOCTA-1,6-DIENE** CAS No.: 123-35-3 EC No.: 204-622-5

**EC<sub>50</sub>**: 0.31 mg/L 3 d (Algae/water plant, *Raphidocelis subcapitata* (previous names: *Pseudokirchneriella subcapitata*, *Selenastrum capricornutum*))

**EC<sub>50</sub>**: 1.47 mg/L 2 d (crustaceans, *Daphnia magna*)

**2-methylundecanal** CAS No.: 110-41-8 EC No.: 203-765-0

**LC<sub>50</sub>**: >0.46 mg/L 2 d (fish, *Oncorhynchus mykiss* (previous name: *Salmo gairdneri*)) OECD Guideline 203 (Fish, Acute Toxicity Test)

**LC<sub>50</sub>**: 0.35 mg/L 3 d (fish, *Oncorhynchus mykiss* (previous name: *Salmo gairdneri*)) OECD Guideline 203 (Fish, Acute Toxicity Test)

**LC<sub>50</sub>**: 0.35 mg/L 4 d (fish, *Oncorhynchus mykiss* (previous name: *Salmo gairdneri*)) OECD Guideline 203 (Fish, Acute Toxicity Test)

**EC<sub>50</sub>**: 0.11 mg/L 3 d (Algae/water plant, *Raphidocelis subcapitata* (previous names: *Pseudokirchneriella subcapitata*, *Selenastrum capricornutum*)) OECD Guideline 201 (Alga, Growth Inhibition Test)

**EC<sub>50</sub>**: 0.21 mg/L 2 d (crustaceans, *Daphnia magna*) OECD Guideline 202 (*Daphnia* sp. Acute Immobilisation Test)

**NOEC**: 0.057 mg/L 3 d (Algae/water plant, *Raphidocelis subcapitata* (previous names: *Pseudokirchneriella subcapitata*, *Selenastrum capricornutum*)) OECD Guideline 201 (Alga, Growth Inhibition Test)

**NOEC**: 0.11 mg/L 4 d (fish, *Oncorhynchus mykiss* (previous name: *Salmo gairdneri*)) OECD Guideline 203 (Fish, Acute Toxicity Test)

**NOEC**: 0.053 mg/L 2 d (crustaceans, *Daphnia magna*) OECD Guideline 202 (*Daphnia* sp. Acute Immobilisation Test)

**NOEC**: 0.033 mg/L 21 d (crustaceans, *Daphnia magna*)

**LOEC**: 0.059 mg/L 21 d (crustaceans, *Daphnia magna*)

**alpha PINEN** CAS No.: 80-56-8 EC No.: 201-291-9

**LC<sub>50</sub>**: 0.303 mg/L 4 d (fish, *Danio rerio* (previous name: *Brachydanio rerio*)) OECD Guideline 203 (Fish, Acute Toxicity Test)

**EC<sub>50</sub>**: 0.475 mg/L 2 d (crustaceans, *Daphnia magna*)

**NOEC**: 0.131 mg/L 2 d (Algae/water plant, *Raphidocelis subcapitata* (previous names: *Pseudokirchneriella subcapitata*, *Selenastrum capricornutum*))

### Aquatic toxicity:

Harmful to aquatic life with long lasting effects.

### 12.2. Persistence and degradability

No data available

### 12.3. Bioaccumulative potential

**(R)-p-mentha-1,8-diene** CAS No.: 5989-27-5 EC No.: 227-813-5

**Log K<sub>OW</sub>**: 4.5

**Bioconcentration factor (BCF)**: 32

**TERPINEOL** CAS No.: 8000-41-7 EC No.: 232-282-8

**Log K<sub>OW</sub>**: = 2.6

**1,8-CINEOL** CAS No.: 470-82-6 EC No.: 207-431-5

**Log K<sub>OW</sub>**: 3.4



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Log K<sub>OW</sub>: 5.285

**2-methylundecanal** CAS No.: 110-41-8 EC No.: 203-765-0

Log K<sub>OW</sub>: 4.9

**alpha PINEN** CAS No.: 80-56-8 EC No.: 201-291-9

Log K<sub>OW</sub>: 4.42

**beta PINEN** CAS No.: 127-91-3 EC No.: 204-872-5

Log K<sub>OW</sub>: 4.425

### 12.4. Mobility in soil

No data available

### 12.5. Results of PBT and vPvB assessment

**(R)-p-mentha-1,8-diene** CAS No.: 5989-27-5 EC No.: 227-813-5

Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

**TERPINEOL** CAS No.: 8000-41-7 EC No.: 232-282-8

Results of PBT and vPvB assessment: —

**1,8-CINEOL** CAS No.: 470-82-6 EC No.: 207-431-5

Results of PBT and vPvB assessment: —

**7-METHYL-3-METHYLDIENEOCTA-1,6-DIENE** CAS No.: 123-35-3 EC No.: 204-622-5

Results of PBT and vPvB assessment: —

**2-methylundecanal** CAS No.: 110-41-8 EC No.: 203-765-0

Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

**alpha PINEN** CAS No.: 80-56-8 EC No.: 201-291-9

Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

**beta PINEN** CAS No.: 127-91-3 EC No.: 204-872-5

Results of PBT and vPvB assessment: —

### 12.6. Endocrine disrupting properties

No data available

### 12.7. Other adverse effects

No data available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### 13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

16 03 05 \* organic wastes containing hazardous substances

\*: Evidence for disposal must be provided.

#### Waste treatment options

Appropriate disposal / Product:

Consult the appropriate local waste disposal expert about waste disposal.

## SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
<b>14.1. UN number or ID number</b>			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.



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Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
<b>14.2. UN proper shipping name</b>			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
<b>14.3. Transport hazard class(es)</b>			
not relevant	not relevant	not relevant	not relevant
<b>14.4. Packing group</b>			
not relevant	not relevant	not relevant	not relevant
<b>14.5. Environmental hazards</b>			
not relevant	not relevant	not relevant	not relevant
<b>14.6. Special precautions for user</b>			
not relevant	not relevant	not relevant	not relevant

### 14.7. Maritime transport in bulk according to IMO instruments

No data available

## SECTION 15: Regulatory information

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

#### 15.1.1. EU legislation

##### Authorisations:

Ingredients according to the Detergents Regulation 648/2004/EG:  
perfumes

#### 15.1.2. National regulations

No data available

### 15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

## SECTION 16: Other information

### 16.1. Indication of changes

No data available

### 16.2. Abbreviations and acronyms

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DIN	German Institute for Standardization / German Industrial Standard
DNEL	derived no-effect level
EC <sub>50</sub>	Effective Concentration 50%
EN	European Standard
ES	Exposure scenario
EWC	European Waste Catalogue
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISO	International Standards Organisation
LC <sub>50</sub>	Lethal (fatal) Concentration 50%
LD <sub>50</sub>	Lethal (fatal) Dose 50%
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety & Health

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NOEC	No Observed Effect Concentration
OECD	Organisation for Economic Cooperation and Development
PBT	persistent and bioaccumulative and toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation and Authorization of Chemicals
RID	Dangerous goods regulations for transport by rail
TRGS	Technische Regeln für Gefahrstoffe
UN	United Nations

### 16.3. Key literature references and sources for data

Substance name	Type	source of supply
<b>7-METHYL-3-METHYLDIENEOCTA-1,6-DIENE</b> CAS No.: 123-35-3 EC No.: 204-622-5	LD <sub>50</sub> oral; EC <sub>50</sub>	Source: European Chemicals Agency, <a href="http://echa.europa.eu/">http://echa.europa.eu/</a>
<b>(R)-p-mentha-1,8-diene</b> CAS No.: 5989-27-5 EC No.: 227-813-5	LC <sub>50</sub> ; EC <sub>50</sub> ; NOEC; LOEC	Source: European Chemicals Agency, <a href="http://echa.europa.eu/">http://echa.europa.eu/</a>
<b>1,8-CINEOL</b> CAS No.: 470-82-6 EC No.: 207-431-5	LC <sub>50</sub> ; EC <sub>50</sub> ; NOEC	Source: European Chemicals Agency, <a href="http://echa.europa.eu/">http://echa.europa.eu/</a>
<b>2-methylundecanal</b> CAS No.: 110-41-8 EC No.: 203-765-0	LC <sub>50</sub> ; EC <sub>50</sub> ; NOEC; LOEC	Source: European Chemicals Agency, <a href="http://echa.europa.eu/">http://echa.europa.eu/</a>
<b>alpha PINEN</b> CAS No.: 80-56-8 EC No.: 201-291-9	LC <sub>50</sub> ; EC <sub>50</sub> ; NOEC	Source: European Chemicals Agency, <a href="http://echa.europa.eu/">http://echa.europa.eu/</a>

### 16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Skin corrosion/irritation ( <i>Skin Irrit. 2</i> )	H315: Causes skin irritation.	
Respiratory or skin sensitisation ( <i>Skin Sens. 1</i> )	H317: May cause an allergic skin reaction.	
Hazardous to the aquatic environment ( <i>Aquatic Chronic 3</i> )	H412: Harmful to aquatic life with long lasting effects.	

### 16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

Hazard statements	
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.
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.

### 16.6. Training advice

No data available

### 16.7. Additional information

The information is based on our current level of knowledge and is used to describe the product with regard to the safety precautions to be taken. They do not represent a guarantee of the properties of the product described.

It is the responsibility of the recipient of our product to observe existing laws and regulations.