

# Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)

## 73800 Spike-Lavender Oil

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### 1. Identification of the Substance/Mixture and of the Company/Undertaking

#### 1.1. Product Identifier

*Product Name:* Spike-Lavender Oil

*Article No.:* 73800

#### 1.2. Relevant identified Uses of the Substance or Mixture and Uses advised against

*Identified uses:*

*Fragrance  
Aroma*

*Uses advised against:*

#### 1.3. Details of the Supplier of the Safety Data Sheet (Producer/Importer)

*Company:* Interlabshop B.V.  
*Address:* Lage Brink 23, 7317 BD Apeldoorn The Netherlands  
*Tel./Fax.:* Tel. +3155-5215016  
*Internet:* www.Labshop.nl  
*E-Mail:* labshop@labshop.nl

*Importer:* --

1.4. *Emergency No.:* --

*Emergency No.:* --

#### 1.4.2. Poison Center:

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### 2. Hazards Identification

#### 2.1. Classification of the Substance or Mixture

*Classification according to Regulation  
(EC) No. 1272/2008 (CLP/GHS)*

*Aspiration hazard, hazard category 1  
Skin irritation, hazard category 2  
Skin sensitization, hazard category 1  
Eye irritation, hazard category 2  
Chronic aquatic toxicity, hazard category 2*

H304 May be fatal if swallowed and enters airways.

Cat.: 1  
H315 Causes skin irritation.

Cat.: 2  
H317 May cause an allergic skin reaction.

Cat.: 1  
H319 Causes serious eye irritation.

Cat.: 2  
H411 Toxic to aquatic life with long lasting effects.  
Cat.: 2

*Possible Environmental Effects:*

#### 2.2. Label Elements

*Classification according to Regulation  
(EC) No. 1272/2008 (CLP/GHS)*

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*Hazard designation:*



GHS07



GHS08-2



GHS09

*Signal word:*

Danger

*Hazard designation:*

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.
H411	Toxic to aquatic life with long lasting effects.

*Safety designation:*

P261	Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P264	Wash thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P301+P310	If swallowed: Immediately call a poison center or physician.
P333+P313	If skin irritation or rash occurs: Get medical attention.
P405	Store locked up.

*Hazardous components for labelling:*

2.3. Other Hazards

No information available.

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### 3. Composition/Information on Ingredients

3.1. Substance

3.2. Mixture

*Chemical Characterization:* Essential oil

*Information on Components / Hazardous Ingredients:*

Camphene (H228-319-400-410)	2.5 - 10 %	CAS-Nr: 79-92-5 EINECS-Nr: 201-234-8 EC-Nr:
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3,7,7-Trimethylcyclo(4.1.0)hept-3-en; D3-Carene (H226-304-315-317-410)	2.5 - 10 %	CAS-Nr: 13466-78-9 EINECS-Nr: 236-719-3 EC-Nr:
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D-Limonene (H226-304-315-317-400-412)	2.5 - 10 %	CAS-Nr: 5989-27-5
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		EINECS-Nr: 227-813-5 EC-Nr:
alpha-Pinene (H226-302-304-315-317-410)	2.5 - 10 %	CAS-Nr: 80-56-8 EINECS-Nr: 201-291-9 EC-Nr:
Eucalyptol; 1,8-Cineol (H226-317)	10 - 30 %	CAS-Nr: 470-82-6 EINECS-Nr: 207-431-5 EC-Nr:
3,7-Dimethyl-1,6-octadien-3-ol; Linalool (H315-317-319)	10 - 25 %	CAS-Nr: 78-70-6 EINECS-Nr: 201-134-4 EC-Nr:
beta-Myrcene (H226-304-317-411)	1 - 2.5 %	CAS-Nr: 123-35-3 EINECS-Nr: 204-622-5 EC-Nr:
Linalyl acetate; Lavender oil (H315-319)	1 - 10 %	CAS-Nr: 115-95-7 EINECS-Nr: 204-018-7 EC-Nr:
p-Cymene (H226-304-315-319)	1 - 10 %	CAS-Nr: 99-87-6 EINECS-Nr: 202-796-7 EC-Nr:
Camphor (H228-315-319-335)	1 - 10 %	CAS-Nr: 76-22-2 EINECS-Nr: 200-945-0 EC-Nr:
beta-Phellandrene (H226-304)	1 - 10 %	CAS-Nr: 555-10-2 EINECS-Nr: 209-081-9 EC-Nr:
gamma-Terpinene; p-Mentha-1,4-dien (H226-361-411)	0.5 - 1 %	CAS-Nr: 99-85-4 EINECS-Nr: 202-794-6 EC-Nr:
beta-Pinen (H226-304-315-317-400-410)	0.25 - 0.5 %	CAS-Nr: 18172-67-3 EINECS-Nr: 242-060-2 EC-Nr:
beta-Caryophyllene (H304-317)	0.1 - 0.5 %	CAS-Nr: 87-44-5 EINECS-Nr: 201-746 EC-Nr:
alpha-Terpinene (H226-302-317-319)	0.1 - 0.5 %	CAS-Nr: 99-86-5 EINECS-Nr: 202-795-1 EC-Nr:
alpha-Terpinolene (H304-317-400-410)	0.1 - 0.25 %	CAS-Nr: 586-62-9

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EINECS-Nr: 209-578-0

EC-Nr:

*Additional information:*

*Further contents: alpha-Terpineol (CAS No.: 98-55-5; EINECS 202-680-6)*

### 4. First Aid Measures

#### 4.1. Description of the First Aid Measures

*General information:*

*Take affected persons out into the fresh air.*

*After inhalation:*

*Supply fresh air and keep patient calm.*

*Get medical help.*

*After skin contact:*

*Remove contaminated clothing. Wash off immediately with plenty of water and soap.*

*After eye contact:*

*Rinse open eyes with plenty of water for at least 15 minutes.*

*After ingestion:*

*Drink plenty of water. Get medical help in case of discomfort.*

#### 4.2. Most important Symptoms and Effects, both Acute and Delayed

*Symptoms:*

*No further information available.*

*Effects:*

*No further information available.*

#### 4.3. Indication of any Immediate Medical Attention and special Treatment needed

*Treatment:*

*No further information available.*

### 5. Fire-Fighting Measures

#### 5.1. Extinguishing Media

*Suitable extinguishing media:*

*CO2, extinguishing powder, sand or earth.*

*Unsuitable extinguishing media:*

*Water with full jet.*

#### 5.2. Special Hazards arising from the Substance or Mixture

*Special hazards:*

*No special hazards.*

#### 5.3. Advice for Firefighters

*Protective equipment:*

*Wear self-contained respiratory protective device.*

*Further information:*

*Cool exposed containers with water spray.*

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### 6. Accidental Release Measures

#### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

*Personal precautions:*

*Provide adequate ventilation. Keep away from sources of ignition.  
Wear protective clothing.*

#### 6.2. Environmental Precautions

*Environmental precautions:*

*Prevent contamination of soils, drains and surface water.*

#### 6.3. Methods and Material for Containment and Cleaning Up

*Methods and material:*

*Contain with absorbent material (sand, diatomaceous earth, acid binder, universal absorbent, saw dust) and dispose accordingly.*

#### 6.4. Reference to other Sections

*See Section 13 for information on disposal.*

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### 7. Handling and Storage

#### 7.1. Precautions for Safe Handling

*Instructions on safe handling:*

*Avoid the formation of aerosol.  
Avoid contact with eyes.*

*Hygienic measures:*

*Do not eat or drink during work. Do not smoke.*

#### 7.2. Conditions for Safe Storage, including any Incompatibilities

*Storage conditions:*

*Store in tightly sealed containers in a cool and well ventilated location.*

*Requirements for storage areas and containers:*

*Avoid pollution of soil.*

*Information on fire and explosion protection:*

*Keep away from sources of ignition - do not smoke.  
Do not store together with: foodstuffs and animal feed.*

*Storage class:*

*10; Combustible liquids (TRGS 510)*

*Further Information:*

#### 7.3. Specific End Use(s)

*Further information:*

*No information available.*

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### 8. Exposure Controls/Personal Protection

#### 8.1. Parameters to be Controlled

*Parameters to be controlled (DE):*

*TRGS 900*

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*D-Limonene (5989-27-5): 28 mg/m<sup>3</sup>; 5 ppm; 4 (II) (H,Sh,Y)*

*RCP: 600 mg/m<sup>3</sup>*

*Content of hydrocarbons (aliphatic C5-C15, aromatic C7-C15): 95 - 96 %*

*Parameters to be controlled:*

*Derived No-Effect Level (DNEL):*

*Predicted No-Effect Concentration (PNEC):*

*Additional Information:*

### 8.2. Exposure Controls

*Technical protective measures:*

*Provide adequate ventilation.*

*Personal Protection*

*General protective measures:*

*Keep away from foodstuffs and drinks. Do not eat, drink or smoke during work. Wash hands before breaks and at the end of work. Avoid contact with eyes.*

*Respiratory protection:*

*In case of long-term or higher exposure.*

*Hand protection:*

*Protective gloves*

*Protective glove material:*

*Eye protection:*

*Safety glasses with protective shields (EN 166).*

*Body protection:*

*Protective clothing.*

*Environmental precautions:*

*Do not allow entering sewerage system.*

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## 9. Physical and Chemical Properties

### 9.1. Information on Basic Physical and Chemical Properties

*Form: liquid*

*Color: yellowish*

*Odor: aromatic*

*Odor threshold: No information available.*

*pH-Value: not determined*

*Melting temperature: not available*

*Boiling temperature:*

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*not available*

*Flash point:* 60°C

*Evaporation rate:*  
*No information available.*

*Flammability (solid, gas):*  
*not available*

*Upper explosion limit:*  
*no information available*

*Lower explosion limit:*  
*no information available*

*Vapor pressure:*  
*not determined*

*Vapor density:*  
*No information available.*

*Density:* 0.902 g/cm<sup>3</sup> (20°C)

*Solubility in water:* *not miscible*

*Coefficient of variation (n-  
Octanol/Water):*  
*not determined*

*Auto-ignition temperature:* > 200°C

*Decomposition temperature:*  
*No data available.*

*Viscosity, dynamic:*  
*not available*

*Explosive properties:*  
*not available*

*Oxidizing properties:*  
*no information available*

*Bulk density:*  
*not determined*

### 9.2. Further Information

*Solubility in solvents:*

*Viscosity, kinematic*

*Burning class:*

*Solvent content:*

*Solid content:*

*Particle size:*

*Other information:*

*No further information.*

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### 10. Stability and Reactivity

#### 10.1. Reactivity

*Stable if used according to specifications.*

#### 10.2. Chemical Stability

*Stable if used according to specifications.*

#### 10.3. Possibility of Hazardous Reactions

*Unknown.*

#### 10.4. Conditions to Avoid

*Conditions to avoid:*

*Avoid heat and sources of ignition.*

*Thermal decomposition:*

*No data available.*

#### 10.5. Incompatible Materials

*Acids and bases*

*Strong oxidizing agents.*

#### 10.6. Hazardous Decomposition Products

*None if stored and handled according to specifications.*

#### 10.7. Further Information

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### 11. Toxicological Information

#### 11.1. Information on Toxicological Effects

*Acute Toxicity*

*LD50, oral:*

*1,8-Cineol: 3300-5800 mg/kg bw/day (rat)*

*Linalool: LD50: 2790 mg/kg bw/day (rat); LD50: 2200-3500 mg/kg bw/day (mouse)*

*Camphene: > 2000 mg/kg bw/day (rat)*

*alpha-Pinene: LD50: 300-2000 mg/kg (rat)*

*D-Limonene: LD50: > 2000 mg/kg (rat); 2000 mg/kg bw/day*

*Linalyl acetate: > 5000 mg/kg bw/day (rat)*

*Camphor: LD50: 1310 mg/kg (mouse)*

*beta-Myrcene: > 3380 mg/kg bw/day (mouse)*

*gamma-Terpinene: > 2000 mg/kg bw/day (rat)*

*beta-Caryophyllene: > 5000 mg/kg bw/day (mouse)*

*alpha-Terpinene: 1.68 g/kg (14d, rat; OECD 401)*

*alpha-Terpinolene: > 2000 mg/kg bw/day (rat; OECD 401)*

*LD50, dermal:*

*1,8-Cineol: > 2000 mg/kg bw/day (24h, rat; OECD 402)*

*Linalool: 5610 mg/kg bw/day (rabbit; OECD 402)*

*Camphene: > 2500 mg/kg bw/day (rabbit)*

*alpha-Pinene: > 2000 mg/kg bw/day (24h, rat; OECD 402)*

*D-Limonene: LD50: > 5000 mg/kg (rabbit); 5000 mg/kg bw/day*

*Linalyl acetate: > 5000 mg/kg bw/day (rat)*

*beta-Myrcene: > 5000 mg/kg bw/day (rabbit; OECD 402)*

*gamma-Terpinene: > 2000 mg/kg bw/day (rat; OECD 402)*

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*alpha-Terpinolene: > 2000 mg/kg bw/day (rabbit; OECD 402)*

### *LC50, inhalation:*

*Linalool: LC50: 3.2 mg/l (90 min, mouse)*

*Camphene: > 25 mg/l (4h)*

### *Primary effects*

#### *Irritant effect on skin:*

*1,8-Cineol: non irritating (15 min; OECD 439)*

*Linalool; irritating (4h, rabbit; OECD 404)*

*Camphene: non irritating (72h, rabbit; OECD 404)*

*alpha-Pinene: irritating (15 min)*

*D-Limonene: LD50: non irritating (4h, rabbit; OECD 404)*

*beta-Myrcene: irritating*

*gamma-Terpinene: non irritating (OECD 439)*

*beta-Carophyllene: non irritating (60 min)*

*alpha-Terpinene: non irritating (24h, rabbit)*

*alpha-Terpinolene: non irritating (OECD 439)*

#### *Irritant effect on eyes:*

*1,8-Cineol: non irritating (7 days, rabbit; OECD 405)*

*Linalool: reversible (rabbit; OECD 405)*

*Camphene: slightly irritating (24h, rabbit; OECD 405)*

*alpha-Pinene: non irritating (In-vitro; OECD 492)*

*D-Limonene: non irritating (7 days, rabbit; OECD 405)*

*beta-Myrcene: irritating (rabbit; OECD 405)*

*beta-Caryophyllene: non irritating (rabbit)*

*alpha-Terpinene: irritating (rabbit)*

*alpha-Terpinolene: non irritating (rabbit; OECD 405)*

#### *Inhalation:*

*No information available.*

#### *Ingestion:*

*No information available*

#### *Sensitization:*

*1,8-Cineol: sensitizing (mouse; OECD 429)*

*Camphene: non sensitizing*

*alpha-Pinene: sensitizing*

*D-Limonene: 11312 µg/cm2 (mouse)*

*Linalyl acetate: sensitizing (mouse; OECD 429)*

*beta-Myrcene: non sensitizing (mouse; OECD 429)*

*gamma-Terpinene: non sensitizing (OECD 442D)*

*beta-Caryophyllene: sensitizing (guinea pig; OECD 406)*

*alpha-Terpinene: sensitizing (mouse; OECD 429)*

*alpha-Terpinolene: sensitizing (mouse; OECD 429)*

#### *Mutagenicity:*

*gamma-Terpinene: Genetic toxicity: negative (Ames-Test; OECD 471)*

#### *Reproductive toxicity:*

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*D-Limonene*: NOAEL: 591 mg/kg bw/day (rat)  
*gamma-Terpinene*: 250 mg/kg bw/day (oral, rat; OECD 422), positive

*Carcinogenicity*:

*1,8-Cineol*: negative (*Salmonella typhimurium*)  
*D-Limonene*: LOAEL: 75 mg/kg bw/day (rat)

*Teratogenicity*:

No information available.

*Specific target organ toxicity (STOT)*:

Repeated exposure:  
*1,8-Cineol*: NOEAL (oral): 600 mg/kg bw/day (28d, rat; OECD 407)  
*D-Limonene*: LOAEL (oral): 1000 mg/kg bw/day (dog)  
*beta-Myrcene*: LOEAL (oral): 250 mg/kg bw/day (rat; OECD 408)  
*gamma-Terpinene*: NOAEL (oral): 250 mg/kg (rat)  
*Linalyl acetate*: NOEAL (dermal): 250 mg/kg bw/day (rat; OECD 411)

*Additional toxicological information*:

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## 12. Ecological Information

### 12.1. Aquatic Toxicity

*Fish toxicity*:

*Linalool*: LC0: 19.9 mg/l (96h); NOEC: < 3.5 mg/l (96h)  
*alpha-Pinene*: LC50: 303 µg/l

*Daphnia toxicity*:

*Linalool*: EC50: 59 mg/l (96h); 71 mg/l (24h); NOEC: 25 mg/l (48h)  
*alpha-Pinene*: EC50: 475 µg/l  
*alpha-Pinene*: EC50: 475 µg/l  
*gamma-Terpinene*: EC50: 10.189 mg/l (48h; OECD 202)  
*alpha-Terpinolene*: EC50: 634 µg/l (48h)

*Bacteria toxicity*:

No data available.

*Algae toxicity*:

*Linalool*: EC50: 88.3 mg/l (96h, *Scenedesmus subspicatus*); EC50: 0.32 mg/l (72h, algae); NOEC: 18 mg/cm<sup>3</sup>  
*alpha-Pinene*: LOEC: 494 µg/l (algae); NOEC: 247 µg/l (algae)  
*gamma-Terpinene*: NOEC: > 10.82 mg/l (72h; OECD 301D)

### 12.2. Persistency and Degradability

*Linalool*: Readily biodegradable (OECD 301D)  
*alpha-Pinene*: 100 %

### 12.3. Bioaccumulation

*D-Limonene*: Bioconcentration factor (BCF): 726.2

### 12.4. Mobility

*D-Limonene*: 4.38 logKOW

### 12.5. Results of PBT- und vPvP Assessment

This substance is not classified as PBT (persistent,

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*bioaccumulative, toxic), nor as vPvB (very persistent, very bioaccumulative).*

### 12.6. Other Adverse Effects

*Water hazard class:*

*3, hazardous*

*Behaviour in sewage systems:*

*Further ecological effects:*

*Do not let product enter waterways or sewage system.*

*AOX Value:*

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### 13. Disposal Considerations

#### 13.1. Waste Treatment Methods

*Product:*

*If product cannot be reused or recycled, it has to be disposed of according to current local regulations.*

*European Waste Code (EWC):*

*Uncleaned packaging:*

*Dispose of according to official local regulations.*

*Waste Code No.:*

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### 14. Transport Information

#### 14.1. UN Number

*ADR, IMDG, IATA*

*3082*

#### 14.2. UN Proper Shipping Name

*ADR/RID:*

*UMWELTGEFÄHRDENDER STOFF, FLÜSSIG, N.A.G. (Camphene, A-Pinene)*

*IMDG/IATA:*

*ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Camphene, A-Pinene)*

#### 14.3. Transport Hazard Classes

*ADR Class:*

*9*

*Hazard no.:*

*9*

*Classification code:*

*M6*

*Tunnel restriction code:*

*E*

*IMDG Class (sea):*

*9*

*Hazard no.:*

*9*

*EmS No.:*

*F-A, S-F*

*IATA Class:*

*9*

*Hazard no.:*

*9*

#### 14.4. Packaging Group

*ADR/RID:*

*III*

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*IMDG:* III

*IATA:* III

### 14.5. Environmental Hazards

*Labelling according 5.2.1.8 ADR/RID: fish and tree*

*Labelling according 5.2.1.6.3 IMDG: fish and tree*

*Labelled with "P" according 2.10 IMDG: yes*

### 14.6. Special Precautions for User

*not applicable*

### 14.7. Transportation in Bulk according to Annex II of MARPOL 73/78 and IBC-Code

### 14.8. Further Information

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## 15. Regulatory Information

### 15.1. Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

*Water hazard class:*

*3, very hazardous for water (according to the German Regulation AwSV, 01.08.2017)*

*Local regulations on chemical accidents:*

*Employment restrictions:*

*The employment restrictions for expectant and nursing mothers in accordance with the Maternity Protection Guideline (94/85/EEC) are to be observed.*

*The employment restrictions for young workers in accordance with the Youth Employment Protection Law (94/33/EC) are to be observed.*

*Restriction and prohibition of application:*

*Industrial Safety Regulation: no flammable liquid*

*Technical instructions on air quality:*

*5.2.5. (Classification I): < 5 %*

### 15.2. Chemical Safety Assessment

*No information available.*

### 15.3. Further Information

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## 16. Other Information

*This product should be stored, handled and used in accordance with good hygiene practices and in conformity with any legal regulations. This information contained herein is based on the present state of knowledge and is intended to describe our product from the point of view of safety requirements. It should be therefore not be construed as guaranteeing specific properties.*