

## SPIKE LAVENDER OIL NATURAL

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

#### 1.1 Product identifier

Trade name

**SPIKE LAVENDER OIL NATURAL**

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

Relevant identified uses

industrial uses  
cosmetics  
perfume

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

NOW Foods Group  
395 Glen Ellyn Rd  
Bloomington, IL  
60108

Telephone: 630.545.9098

#### 1.4 Emergency telephone number

Emergency information service

Chem Tel Inc.  
800- 255-3924

## SPIKE LAVENDER OIL NATURAL

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

GHS chapter	Hazard class and category	Hazard statement code(s)
2.6	flammable liquids	Cat. 3 (Flam. Liq. 3) H226
3.2	skin corrosion/irritation	Cat. 2 (Skin Irrit. 2) H315
3.3	serious eye damage/eye irritation	Cat. 2 (Eye Irrit. 2) H319
3.4S	skin sensitisation	Cat. 1B (Skin Sens. 1B) H317
3.8	specific target organ toxicity - single exposure	Cat. 2 (STOT SE 2) H371
3.10	aspiration hazard	Cat. 1 (Asp. Tox. 1) H304
4.1C	hazardous to the aquatic environment - chronic hazard	Cat. 2 (Aquatic Chronic 2) H411

##### Remarks

For full text of H-phrases: see SECTION 16.

##### Classification according to Directive 1999/45/EC (DPD)

##### Symbol(s) - R-phrases



R68/22. Harmful: possible risk of irreversible effects if swallowed.  
R65. Harmful: may cause lung damage if swallowed.



R38. Irritating to skin.  
R43. May cause sensitisation by skin contact.  
R51/53. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

##### The most important adverse physicochemical, human health and environmental effects

Immediate effects can be expected after short-term exposure. The product is combustible and can be ignited by potential ignition sources. Spillage and fire water can cause pollution of watercourses.

#### 2.2 Label elements

##### Labelling according to Regulation (EC) No 1272/2008 (CLP)

##### Signal word

**Danger**

##### Pictograms

GHS02, GHS07,  
GHS08, GHS09



##### Hazard statements

H226 Flammable liquid and vapour.  
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.  
H371 May cause damage to organs (kidney, central nervous system) (if swallowed).  
H411 Toxic to aquatic life with long lasting effects.

##### Precautionary statements

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### Precautionary statements - general

- P101. If medical advice is needed, have product container or label at hand.  
 P102. Keep out of reach of children.  
 P103. Read label before use.

### Precautionary statements - prevention

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
 P272 Contaminated work clothing should not be allowed out of the workplace.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.

### Precautionary statements - response

- P301+P310 IF SWALLOWED: immediately call a POISON CENTER or doctor/physician.  
 P302+P352 IF ON SKIN: wash with plenty of soap and water.  
 P305+P351+P338 IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P331 Do NOT induce vomiting.  
 P333+P313 If skin irritation or rash occurs: get medical advice/attention.  
 P337+P313 If eye irritation persists: get medical advice/attention.  
 P362 Take off contaminated clothing and wash it before reuse.  
 P391 Collect spillage.

### Precautionary statements - disposal

- P501 Dispose of contents/container to industrial combustion plant.

**Hazardous ingredients for labelling:** Eucalyptol, dl-Camphor, alpha-Pinene, d-Limonene, beta-Pinene

### Labelling according to Directive 1999/45/EC (DPD)

#### Symbols acc. to DSD/DPD.

Xn. N.



#### R-phrases acc. to DSD/DPD.

- R68/22. Harmful: possible risk of irreversible effects if swallowed.  
 R65. Harmful: may cause lung damage if swallowed.  
 R38. Irritating to skin.  
 R43. May cause sensitisation by skin contact.  
 R51/53. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### S-phrases acc. to DSD/DPD.

- S2. Keep out of the reach of children.  
 S23.0. Do not breathe gas/fumes/vapour/spray.  
 S24. Avoid contact with skin.  
 S29. Do not empty into drains.  
 S36/37. Wear suitable protective clothing and gloves.  
 S46. If swallowed, seek medical advice immediately and show this container or label.  
 S61. Avoid release to the environment. Refer to special instructions/safety data sheets.

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### Hazardous ingredients for labelling

Eucalyptol. Alpha-Pinene. DI-Camphor. Beta-Pinene. D-Limonene.

### 2.3 Other hazards

There is no additional information.




























## SECTION 3: Composition/information on ingredients

### 3.1 Substances



not relevant (mixture)

### 3.2 Mixtures

#### Description of the mixture

Name of substance	Identifier	wt%	Classification acc. to 1272/2008/EC	Pictograms	Classification acc. to 67/548/EEC	Symbols
Linalool	CAS No 78-70-6 EC No 201-134-4	25 - < 50	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319		irritant; Xi; R38	
Eucalyptol	CAS No 470-82-6 EC No 207-431-5	25 - < 50	Flam. Liq. 3 / H226 Skin Sens. 1B / H317	 	flammable; R10 sensitising; Xi; R43	
dl-Camphor	CAS No 21368-68-3 EC No 244-350-4	10 - < 25	Flam. Sol. 2 / H228 Acute Tox. 4 / H302 Acute Tox. 4 / H332 STOT SE 2 / H371	  	highly flammable; F; R11 harmful; Xn; R20/22-68/22	 
alpha-Pinene	CAS No 80-56-8 EC No 201-291-9	1 - < 5	Flam. Liq. 3 / H226 Skin Irrit. 2 / H315 Skin Sens. 1B / H317 Asp. Tox. 1 / H304	  	flammable; R10 harmful; Xn; R65 irritant; Xi; R38 sensitising; Xi; R43	
beta-Caryophyllene	CAS No 87-44-5 EC No 201-746-1	1 - < 5	Asp. Tox. 1 / H304		harmful; Xn; R65	
d-Limonene	CAS No 5989-27-5 EC No 227-813-5	1 - < 5	Flam. Liq. 3 / H226 Skin Irrit. 2 / H315 Skin Sens. 1B / H317 Asp. Tox. 1 / H304 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410	   	flammable; R10 harmful; Xn; R65 irritant; Xi; R38 sensitising; Xi; R43 dangerous for the environment; N; R50-53	 
p-Cymene	CAS No 99-87-6 EC No 202-796-7	1 - < 5	Flam. Liq. 3 / H226 Asp. Tox. 1 / H304 Aquatic Chronic 2 / H411	  	flammable; R10 harmful; Xn; R65 dangerous for the environment; N; R51-53	 

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Name of substance	Identifier	wt%	Classification acc. to 1272/2008/EC	Pictograms	Classification acc. to 67/548/EEC	Symbols
beta-Pinene	CAS No 127-91-3  EC No 204-872-5	< 1	Flam. Liq. 3 / H226 Skin Irrit. 2 / H315 Skin Sens. 1B / H317 Asp. Tox. 1 / H304 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410		flammable; R10 harmful; Xn; R65 irritant; Xi; R38 sensitising; Xi; R43 dangerous for the environment; N; R50-53	

For full text of abbreviations: see SECTION 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

##### General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

##### Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

##### Following skin contact

Wash with plenty of soap and water.

##### Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

##### Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

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

Symptoms and effects are not known to date.

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

none

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

##### Suitable extinguishing media

water spray, alcohol resistant foam, BC-powder, carbon dioxide (CO<sub>2</sub>)

##### Unsuitable extinguishing media

water jet

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

In case of insufficient ventilation and/or in use, may form flammable/explosive vapour-air mixture. Solvent vapours are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures.

#### Hazardous combustion products

nitrogen oxides (NO<sub>x</sub>), carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>)

### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

## SECTION 6: Accidental release measures

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

#### For non-emergency personnel

Remove persons to safety.

#### For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose it.

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

#### Advices on how to contain a spill

Covering of drains.

#### Advices on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage (sawdust, kieselgur (diatomite), sand, universal binder).

#### Appropriate containment techniques

Use of adsorbent materials.

#### Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

#### Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

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### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

##### Recommendations

- **Measures to prevent fire as well as aerosol and dust generation**

Use local and general ventilation. Avoidance of ignition sources. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Use only in well-ventilated areas. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools.

- **Warning**

Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapours are heavier than air, spread along floors and form explosive mixtures with air. Vapours may form explosive mixtures with air.

##### Advice on general occupational hygiene

Wash hands after use. Do not to eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

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

##### Managing of associated risks

- **Explosive atmospheres**

Keep container tightly closed and in a well-ventilated place. Use local and general ventilation. Keep cool. Protect from sunlight.

- **Flammability hazards**

Keep away from sources of ignition - No smoking. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Protect from sunlight.

##### Incompatible substances or mixtures

Observe hints for combined storage.

##### Consideration of other advice

- **Ventilation requirements**

Use local and general ventilation. Ground/bond container and receiving equipment.

- **Packaging compatibilities**

Only packagings which are approved (e.g. acc. to ADR) may be used.

#### 7.3 Specific end use(s)

See section 16 for a general overview.

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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### National limit values

##### Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m <sup>3</sup> ]	STEL [ppm]	STEL [mg/m <sup>3</sup> ]	Source	wt%
UK	cycloalkanes (>C7)	127-91-3	WEL		800			EH40/2005	< 1
UK	cycloalkanes (>C7)	5989-27-5	WEL		800			EH40/2005	1 - < 5
UK	cycloalkanes (>C7)	80-56-8	WEL		800			EH40/2005	1 - < 5
UK	cycloalkanes (>C7)	99-85-4 99-83-2	WEL		800			EH40/2005	< 1
UK	aromatics	99-87-6	WEL		500			EH40/2005	1 - < 5
UK	normal and branched chain alkanes (>C7)	123-35-3 3338-55-4	WEL		1,200			EH40/2005	< 1

##### Notation

STEL Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period unless otherwise specified

TWA Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average

##### Relevant DNELs/DMELs/PNECs and other threshold levels

##### • relevant DNELs of components of the mixture

Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Linalool	78-70-6	DNEL	5 mg/kg	human, dermal	worker (industry)	acute - systemic effects
Linalool	78-70-6	DNEL	16.5 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - systemic effects
Linalool	78-70-6	DNEL	2.5 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
Linalool	78-70-6	DNEL	2.8 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
d-Limonene	5989-27-5	DNEL	33.3 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
beta-Pinene	127-91-3	DNEL	0.8 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
beta-Pinene	127-91-3	DNEL	5.69 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects



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• relevant PNECs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Linalool	78-70-6	PNEC	0.2 mg/l	aquatic organisms	freshwater	short-term (single instance)
Linalool	78-70-6	PNEC	0.02 mg/l	aquatic organisms	marine water	short-term (single instance)
Linalool	78-70-6	PNEC	10 mg/l	microorganisms	sewage treatment plant (STP)	short-term (single instance)
Linalool	78-70-6	PNEC	2.22 mg/kg	benthic organisms	sediments	short-term (single instance)
Linalool	78-70-6	PNEC	0.222 mg/kg	pelagic organisms	sediments	short-term (single instance)
Linalool	78-70-6	PNEC	7.8 mg/kg	(top) predators	water	short-term (single instance)
Linalool	78-70-6	PNEC	0.327 mg/kg	terrestrial organisms	soil	short-term (single instance)
Linalool	78-70-6	PNEC	2 mg/l	aquatic organisms	water	continuous
d-Limonene	5989-27-5	PNEC	5.4 µg/l	aquatic organisms	freshwater	short-term (single instance)
d-Limonene	5989-27-5	PNEC	0.54 µg/l	aquatic organisms	marine water	short-term (single instance)
d-Limonene	5989-27-5	PNEC	1.8 mg/l	microorganisms	sewage treatment plant (STP)	short-term (single instance)
d-Limonene	5989-27-5	PNEC	1.32 mg/kg	benthic organisms	sediments	short-term (single instance)
d-Limonene	5989-27-5	PNEC	0.13 mg/kg	pelagic organisms	sediments	short-term (single instance)
d-Limonene	5989-27-5	PNEC	3.33 mg/kg	(top) predators	water	short-term (single instance)
d-Limonene	5989-27-5	PNEC	0.262 mg/kg	terrestrial organisms	soil	short-term (single instance)
beta-Pinene	127-91-3	PNEC	1.004 µg/l	aquatic organisms	freshwater	short-term (single instance)
beta-Pinene	127-91-3	PNEC	0.1004 µg/l	aquatic organisms	marine water	short-term (single instance)
beta-Pinene	127-91-3	PNEC	3.26 mg/l	microorganisms	sewage treatment plant (STP)	short-term (single instance)
beta-Pinene	127-91-3	PNEC	0.337 mg/kg	benthic organisms	sediments	short-term (single instance)
beta-Pinene	127-91-3	PNEC	0.0337 mg/kg	pelagic organisms	sediments	short-term (single instance)
beta-Pinene	127-91-3	PNEC	13.1 mg/kg	(top) predators	water	short-term (single instance)

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Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
beta-Pinene	127-91-3	PNEC	0.0671 mg/kg	terrestrial organisms	soil	short-term (single instance)

### 8.2 Exposure controls

#### Appropriate engineering controls

General ventilation.

#### Individual protection measures (personal protective equipment)

##### Eye/face protection

Wear eye/face protection.

##### Skin protection

##### • hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

##### • other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

##### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

##### Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

Physical state	liquid
Colour	light yellow
Odour	characteristic

#### Other physical and chemical parameters

pH (value)	not determined
Melting point/freezing point	not determined
Initial boiling point and boiling range	not determined
Flash point	57 °C (determination of flash point - rapid equilibrium closed cup method)
Evaporation rate	not determined
Flammability (solid, gas)	not relevant (fluid)
Explosive limits	not determined
Vapour pressure	not determined

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Density	0,892
Solubility(ies)	not determined
Partition coefficient	
n-octanol/water (log KOW)	This information is not available.
Auto-ignition temperature	not determined
Viscosity	not determined
Explosive properties	none
Oxidising properties	none

### 9.2 Other information

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s): risk of ignition

- **if heated**

risk of ignition

### 10.2 Chemical stability

See below "Conditions to avoid".

### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

### 10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### Hints to prevent fire or explosion

Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

#### Physical stresses which might result in a hazardous situation and have to be avoided

strong shocks

### 10.5 Incompatible materials

There is no additional information.

### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

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### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

Test data are not available for the complete mixture.

##### Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

##### Classification according to GHS (1272/2008/EC, CLP)

##### Acute toxicity

Shall not be classified as acutely toxic.

##### • Acute toxicity of components of the mixture

Name of substance	CAS No	Exposure route	ATE
dl-Camphor	21368-68-3	oral	1,500
dl-Camphor	21368-68-3	inhalation: dust/mist	1.5

Name of substance	CAS No	Exposure route	Endpoint	Value	Species	Source
Linalool	78-70-6	oral	LD50	2790 mg/kg	rat	
Linalool	78-70-6	dermal	LD50	5610 mg/kg	rabbit	
Eucalyptol	470-82-6	oral	LD50	2480 mg/kg	unknown	
dl-Camphor	21368-68-3	inhalation: dust/mist	LC50	1.5 mg/l/4h	unknown	
dl-Camphor	21368-68-3	oral	LD50	1500 mg/kg	unknown	
alpha-Pinene	80-56-8	oral	LD50	3500 mg/kg	unknown	
p-Cymene	99-87-6	oral	LD50	4750 mg/kg	unknown	

##### Skin corrosion/irritation

Causes skin irritation.

##### Serious eye damage/eye irritation

Causes serious eye irritation.

##### Respiratory or skin sensitisation

May cause an allergic skin reaction.

##### Summary of evaluation of the CMR properties

Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant.

##### Specific target organ toxicity (STOT)

##### • Specific target organ toxicity - single exposure

May cause damage to organs (kidney, central nervous system) (if swallowed).

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- **Specific target organ toxicity - repeated exposure**

Shall not be classified as a specific target organ toxicant (repeated exposure).

**Aspiration hazard**

May be fatal if swallowed and enters airways.

### SECTION 12: Ecological information

#### 12.1 Toxicity

Toxic to aquatic life.

**Aquatic toxicity (acute)**

**Aquatic toxicity (acute) of components of the mixture**

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Linalool	78-70-6	LC50	27.8 mg/l	fish	96 hours
Linalool	78-70-6	EC50	59 mg/l	aquatic invertebrates	48 hours
Linalool	78-70-6	ErC50	156.7 mg/l	algae	96 hours
d-Limonene	5989-27-5	LC50	720 µg/l	fish	96 hours
d-Limonene	5989-27-5	EC50	688 µg/l	fish	96 hours
beta-Pinene	127-91-3	LC50	0.68 mg/l	fish	96 hours
beta-Pinene	127-91-3	EC50	1.09 mg/l	aquatic invertebrates	48 hours
beta-Pinene	127-91-3	ErC50	0.7 mg/l	algae	72 hours

**Aquatic toxicity (chronic)**

May cause long-term adverse effects in the aquatic environment.

**Aquatic toxicity (chronic) of components of the mixture**

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Linalool	78-70-6	LC50	27.8 mg/l	fish	24 h
Linalool	78-70-6	EC50	71 mg/l	aquatic invertebrates	24 h
d-Limonene	5989-27-5	EC50	0.85 mg/l	aquatic invertebrates	24 h

#### 12.2 Process of degradability

Data are not available.

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### Degradability of components of the mixture

Name of substance	CAS No	Process	Degradation rate	Time
Linalool	78-70-6	oxygen depletion	40.9 %	5 d
beta-Pinene	127-91-3	oxygen depletion	76 %	28 d

### 12.3 Bioaccumulative potential

Data are not available.

#### Bioaccumulative potential of components of the mixture

Name of substance	CAS No	BCF	Log KOW	BOD5/COD
Linalool	78-70-6		2.84	
d-Limonene	5989-27-5		4.38	

### 12.4 Mobility in soil

Data are not available.

### 12.5 Results of PBT and vPvB assessment

Data are not available.

### 12.6 Other adverse effects

Data are not available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Waste treatment-relevant information

Solvent reclamation/regeneration.

#### Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

#### Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

### 13.2 Relevant provisions relating to waste

#### Properties of waste which render it hazardous



not assigned

### 13.3 Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

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### SECTION 14: Transport information

<b>14.1</b>	UN number	<b>1169</b>
<b>14.2</b>	UN proper shipping name	<b>EXTRACTS, AROMATIC, LIQUID</b>
<b>14.3</b>	Transport hazard class(es)	
	Class	3 (flammable liquids)
<b>14.4</b>	Packing group	III (substance presenting low danger)
<b>14.5</b>	Environmental hazards	hazardous to the aquatic environment (p-Cymene)
<b>14.6</b>	<b>Special precautions for user</b>	
	Provisions for dangerous goods (ADR) should be complied within the premises.	
<b>14.7</b>	<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	
	The cargo is not intended to be carried in bulk.	
<b>14.8</b>	<b>Information for each of the UN Model Regulations</b>	
	<b>• Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)</b>	
	UN number	1169
	Proper shipping name	EXTRACTS, AROMATIC, LIQUID
	Class	3
	Classification code	F1
	Packing group	III
	Danger label(s)	3 + "fish and tree"
	 	
	Environmental hazards	yes (hazardous to the aquatic environment)
	Special provisions (SP)	601, 640E
	Excepted quantities (EQ)	E1
	Limited quantities (LQ)	5 L
	Transport category (TC)	3
	Tunnel restriction code (TRC)	D/E
	Hazard identification No	30
	<b>• International Maritime Dangerous Goods Code (IMDG)</b>	
	UN number	1169
	Proper shipping name	EXTRACTS, AROMATIC, LIQUID
	Class	3
	Marine pollutant	yes (hazardous to the aquatic environment)
	Packing group	III
	Danger label(s)	3 + "fish and tree"

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Special provisions (SP)	223, 955
Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 L
EmS	F-E, S-D
Stowage category	B
<b>• International Civil Aviation Organization (ICAO-IATA/DGR)</b>	
UN number	1169
Proper shipping name	Extracts, aromatic, liquid
Class	3
Environmental hazards	yes (hazardous to the aquatic environment)
Packing group	III
Danger label(s)	3



Special provisions (SP)	A3
Excepted quantities (EQ)	E1
Limited quantities (LQ)	10 L

### SECTION 15: Regulatory information

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

##### National regulations (Switzerland)

##### Ordinance on the incentive tax on volatile organic compounds (VOCV)

VOC content (object of taxation):

#### 15.2 Chemical Safety Assessment

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



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### SECTION 16: Other information

#### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
Acute Tox.	acute toxicity
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
Aquatic Acute	hazardous to the aquatic environment - acute hazard
Aquatic Chronic	hazardous to the aquatic environment - chronic hazard
Asp. Tox.	aspiration hazard
ATE	Acute Toxicity Estimate
BCF	BioConcentration Factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
CMR	Carcinogenic, Mutagenic or toxic for Reproduction
COD	chemical oxygen demand
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
DPD	Dangerous Preparations Directive (1999/45/EC)
DSD	Dangerous Substances Directive (67/548/EEC)
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EH40/2005	EH40/2005 Workplace exposure limits, Table 1: List of approved workplace exposure limits ( <a href="http://www.nationalarchives.gov.uk/doc/open-government-licence/">http://www.nationalarchives.gov.uk/doc/open-government-licence/</a> )
EmS	Emergency Schedule
Eye Dam.	seriously damaging to the eye
Eye Irrit.	irritant to the eye
F+	extremely flammable
Flam. Liq.	flammable liquid
Flam. Sol.	flammable solid
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
log KOW	n-octanol/water
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
N	dangerous for the environment

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Abbr.	Descriptions of used abbreviations
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
Skin Corr.	corrosive to skin
Skin Irrit.	irritant to skin
Skin Sens.	skin sensitisation
STOT SE	specific target organ toxicity - single exposure
vPvB	very Persistent and very Bioaccumulative
Xi	irritant
Xn	harmful

### Key literature references and sources for data

- Supplier
- ECHA

### Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards/environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

### List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text
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
H332	harmful if inhaled
H371	may cause damage to organs (kidney, central nervous system) (if swallowed)
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
R10	flammable
R11	highly flammable
R20/22	harmful by inhalation and if swallowed

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Code	Text
R38	irritating to skin
R43	may cause sensitisation by skin contact
R50/53	very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R51/53	toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R65	harmful: may cause lung damage if swallowed
R68/22	harmful: possible risk of irreversible effects if swallowed

### Disclaimer

This document has been prepared in compliance with the Regulation (EU) 453/2010 of the Commission of 20 May 2010 and the classification has been carried out in compliance with the Regulation (EC) 1272/2008 of the Parliament and the Council of 16 December 2008, from available data on the substance (s) or the mixture concerned by this document at its release date.

Information mentioned in this document is intended to ensure, safety on handling, use, processing, storage, transport, and placing on the market of the substance or the mixture.

This information may not be valid, if the substance or the mixture concerned by this document is used for another usage than the one mentioned in section 1 of this document.

The recipient of this safety data sheet remains responsible for its transmission within the downstream supply chain.

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