





## Lavender Essential Oil

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

1.1 Product Identifier	
Product Name	Lavender Essential Oil 40/42
INCI	Lavandula Angustifolia Flower Oil
Synonyms & Trade Names	Lavender Oil
Biological Definition	Blended mixture of lavender oils (Lavandula Angustifolia L.), other Lavandula Spp. and fractions thereof. Standardized for the content of ester linalool and linalool acetate 40/42%.
Product Code	A11016
CAS No.	90063-37-9
EINECS No.	289-995-2
Ec No.	289-995-2
1.2 Details of the supplier of the safety data sheet	
Supplier/Distributor	zielonyklub.pl
Company	Greenaction Sp. z o.o., ul. Śląska 9, 25-328 Kielce, NIP: PL6571011247
Contact	tech@zielonyklub.pl
1.3 Details of the supplier of the safety data sheet	
Emergency Contact	112 (emergency), 998 (fire), 999 (ambulance), 42 631 47 24 (toxicological information in Poland)

### SECTION 2: Hazards identification

2.1 Classification of the substance or mixture	
The full text for all hazard statements is displayed in section 16.	
Classification (67/548/EEC)	No additional data available.
Classification (EU 1272/2008)	Skin irritation, category 2 (skin irrit. 2, H315). Eye irritation, category 2 (eye irrit. 2, H319). Skin sensitisation, category 1b (skin sens. 1B, H317). Hazardous to the aquatic environment - chronic hazard, category 2 (aquatic chronic 2, H411). This mixture does not present a physical hazard.
2.2 Label elements	
Label in accordance with Regulation (EC) No 1272/2008	
GHS Label:	GHS07  GHS09 
Signal word:	WARNING
Contains:	601-029-00-7 (R)-P-Mentha-1,8-Diene EC 207-431-5 Eucalyptol
Hazard Statements:	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.
Precautionary Statements:	P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection.
Supplementary precautionary statements:	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. P333 + P313 If skin irritation or rash occurs: get medical advice/attention. P391 Collect spillage. P501 Dispose of contents/container in accordance with local/regional/national/international regulations
Section 16 (other information): risk & safety phrases in full.	
2.3 Other hazards	
Adverse physio-chemical properties	Combustible but should not self-ignite
Adverse effects on human health	Skin contact may cause irritation/sensitisation
PBT or VPVB according to Annex XIII	None



## Lavender Essential Oil

### SECTION 3: Composition/information on ingredients

#### 3.1 Substances

N/A

#### 3.2 Mixtures

**25-50% LINALOOL CAS-NO.: 78-70-6 EC NO.: 201-134-4**

CLASSIFICATION (EC 1272/2008) ACUTE TOX. 5 - H303, SKIN IRRIT. 2 - H315, AQUATIC ACUTE 3 - H402

**40-50% LINALYL ACETATE CAS: 115-95-7, EINECS: 204-116-4**

CLASSIFICATION (EC 1272/2008) SKIN IRRIT. 2, H315; EYE IRRIT. 2, H319

**2.5-10% (R)-P-MENTHA-1,8-DIENE CAS: 5989-27-5, EC: 227-813-5**

CLASSIFICATION (EC 1272/2008) FLAM. LIQ. 3, H226, SKIN IRRIT. 2, H315, SKIN SENS. 1, H317, AQUATIC ACUTE 1, H400 M ACUTE = 1, AQUATIC CHRONIC 1, H410 M CHRONIC = 1

**<2.5% EUCALYPTOL CAS-NO.: 4602-84-0 EC NO.: 225-004-1**

CLASSIFICATION (EC 1272/2008) FLAM. LIQ. 3, H226; SKIN SENS. 1B, H317

**<2.5% CAMPHOR CAS: 76-22-2, EC: 200-945-0**

CLASSIFICATION (EC 1272/2008) ACUTE TOX. 4, H332, ACUTE TOX. 4, H302, FLAM. SOL. 2, H228, STOT SE 2, H371

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

General Information	Always remove contaminated clothing immediately.
Inhalation	Get medical attention immediately. Remove from exposure site to fresh air, keep at rest, and obtain medical attention.
Ingestion	Get medical attention immediately. Immediately call the poison centre or doctor. Rinse mouth with water and obtain medical attention.
Skin Contact	Remove contaminated clothes. Wash thoroughly with soap and water. Contact physician if irritation persists.
Eye Contact	Flush immediately with water for at least 15 minutes. Contact physician if symptoms persist.

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

Inhalation	May cause coughing and difficulties in breathing
Ingestion	Irritating to the respiratory tract and may cause damage to the central nervous system
Skin contact	Toxic in contact with skin
Eye contact	May cause eye irritation

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

None expected, see section 4.1 For further information.

### SECTION 5: Fire fighting measures

#### 5.1 Extinguishing Media

Extinguishing media: Foam, dry chemical powder, carbon dioxide.

Unsuitable extinguishing media: Water

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

Burning produces irritating, toxic and obnoxious fumes.

#### 5.3 Advice for fire-fighters

Wear positive-pressure self-contained breathing apparatus and appropriate protective clothing.

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions

Ensure adequate ventilation of the working area, evacuate personnel to safe area, wear suitable protective equipment. No smoking, sparks, flames or other sources of ignition near spillage. Avoid contact with skin, eyes and clothing. Avoid inhalation.

#### 6.2 Environmental precautions

Do not discharge into drains, water courses or onto the ground. Dispose of in line with local authority guidelines.

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

Remove ignition sources. Provide adequate ventilation. Avoid excessive inhalation of vapours. Contain spillage immediately by use of sand or inert powder. Dispose of according to local regulations. Do not use solvents.



## Lavender Essential Oil

### SECTION 6: Accidental release measures

6.4 References to other sections.

Section 8 - Exposure controls/personal protection for further information on personal precautions.

Section 13 - Disposal Considerations for further information on waste treatment.

### SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Handle in accordance with good hygiene and safety practice. Keep away from heat, sparks, open flames and hot surfaces. - No smoking. Use personal protective equipment as required. Use in accordance with good manufacturing and industrial hygiene practices. Use in areas with adequate ventilation do not eat, drink or smoke when using this product.

7.2 Conditions for safe storage, including any incompatibilities

Keep the product container tightly closed, in a dry, ventilated area. Keep away from potential sources of ignition and protected from light. Maintain limited contact with oxygen.

7.3 Specific end use(s)

N/A

### SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

#### Occupational exposure limits

ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010):

CAS	TWA	STEL	Ceiling	Definition	Criteria
76-22-2	2ppm	3ppm	-	-	-

France (INRS - ED984 :2008):

CAS	VME-ppm	VME-mg/m3	VLE-ppm	VLE-mg/m3	Notes	TMP No
76-22-2	2	12	-	-	-	-

UK / WEL (Workplace exposure limits, EH40/2005, 2007) :

CAS	TWA	STEL	Ceiling	Definition	Criteria
76-22-2	2ppm	3ppm	-	-	-

Derived no effect level (DNEL) or derived minimum effect level (DMEL). LINALOOL (CAS: 78-70-6)

#### Final use: Workers

Exposure method: dermal contact.

Potential health effects: Short term systemic effects.

DNEL : 5 mg/kg body weight/day

Exposure method: dermal contact.

Potential health effects: short term local effects.

DNEL : 15 mg of substance/cm2

Exposure method: dermal contact.

Potential health effects: long term systemic effects.

DNEL : 2.5 mg/kg body weight/day

Exposure method: dermal contact.

Potential health effects: long term local effects.

DNEL : 15 mg of substance/cm2

Exposure method: inhalation.

Potential health effects: short term systemic effects.

DNEL : 16.5 mg of substance/m3

Exposure method: inhalation.

Potential health effects: long term systemic effects.

DNEL : 2.8 mg of substance/m3

#### Final use: consumers

Exposure method: ingestion.

Potential health effects: short term systemic effects.

DNEL : 1.2 mg/kg body weight/day

Exposure method: ingestion.

Potential health effects: long term systemic effects.

DNEL : 0.2 mg/kg body weight/day

Exposure method: dermal contact.

Potential health effects: short term systemic effects.

DNEL : 2.5 mg/kg body weight/day



## Lavender Essential Oil

### SECTION 8: Exposure controls/personal protection

Exposure method: dermal contact.  
Potential health effects: short term local effects.  
DNEL : 15 mg of substance/cm<sup>2</sup>

Exposure method: dermal contact.  
Potential health effects: long term systemic effects.  
DNEL : 1.25 mg/kg body weight/day

Exposure method: dermal contact.  
Potential health effects: long term local effects.  
DNEL : 15 mg of substance/cm<sup>2</sup>

#### OCCUPATIONAL EXPOSURE LIMITS:

Acgih Tlv (American Conference Of Governmental Industrial Hygienists, Threshold Limit Values, 2010)

CAS	TWA	STEL	CEILING	DEFINITION	CRITERIA
76-22-2	2ppm	3ppm	-	-	-

#### FRANCE (INRS - ED984 :2008)

CAS	VME-PPM	VME-MG/M3	VLE-PPM	VLE-MG/M3	NOTES	TMP NO
76-22-2	2	12	-	-	-	-

#### UK/WEL (Workplace Exposure Limits, EH40/2005, 2007)

CAS	TWA	STEL	CEILING	DEFINITION	CRITERIA
76-22-2	2ppm	3ppm	-	-	-

### Derived no effect level (DNEL) or derived minimum effect level (DMEL). Linalool (CAS: 78-70-6)

#### Final use: workers.

Exposure method: dermal contact.  
Potential health effects: short term systemic effects.  
DNEL : 5 mg/kg body weight/day

Exposure method: dermal contact.  
Potential health effects: short term local effects.  
DNEL : 15 mg of substance/cm<sup>2</sup>

Exposure method: dermal contact.  
Potential health effects: long term systemic effects.  
DNEL : 2.5 mg/kg body weight/day

Exposure method: dermal contact.  
Potential health effects: long term local effects.  
DNEL : 15 mg of substance/cm<sup>2</sup>

Exposure method: inhalation.  
Potential health effects: short term systemic effects.  
DNEL : 16.5 mg of substance/m<sup>3</sup>

Exposure method: inhalation.  
Potential health effects: long term systemic effects.  
DNEL : 2.8 mg of substance/m<sup>3</sup>

#### Final use: consumers

Exposure method: ingestion.  
Potential health effects: short term systemic effects.  
DNEL : 1.2 mg/kg body weight/day

Exposure method: ingestion.  
Potential health effects: long term systemic effects.  
DNEL : 0.2 mg/kg body weight/day

Exposure method: dermal contact.  
Potential health effects: short term systemic effects.  
DNEL : 2.5 mg/kg body weight/day

Exposure method: dermal contact.  
Potential health effects: short term local effects.  
DNEL : 15 mg of substance/cm<sup>2</sup>

Exposure method: dermal contact.  
Potential health effects: long term systemic effects.  
DNEL : 1.25 mg/kg body weight/day

Exposure method: dermal contact.  
Potential health effects: long term local effects.  
DNEL : 15 mg of substance/cm<sup>2</sup>



## Lavender Essential Oil

### SECTION 8: Exposure controls/personal protection

Exposure method: inhalation.  
Potential health effects: short term systemic effects.  
DNEL : 4.1 mg of substance/m<sup>3</sup>

Exposure method: inhalation.  
Potential health effects: long term systemic effects.  
DNEL : 0.7 mg of substance/m<sup>3</sup>

#### Predicted no effect concentration (pnecc). Linalool (cas: 78-70-6)

Environmental compartment: soil. PNEC : 0.327 mg/kg  
Environmental compartment: fresh water. PNEC : 0.2 mg/l  
Environmental compartment: sea water. PNEC : 0.02 mg/l  
Environmental compartment: intermittent waste water. PNEC : 2 mg/l  
Environmental compartment: fresh water sediment. PNEC : 2.22 mg/kg  
Environmental compartment: marine sediment. PNEC : 0.222 mg/kg  
Environmental compartment: waste water treatment plant. PNEC : 10 mg/l

#### 8.2 Exposure Controls

Eye protection	Wear protective gloves/eye protection/face protection. Avoid contact with eyes. Wear approved safety goggles.
Hand protection	Under normal conditions of use and where adequate ventilation is available to prevent build up of excessive vapour, this material should not require special engineering controls. However, in conditions of high or prolonged use, or high temperature or other conditions which increase exposure, the following engineering controls can be used to minimise exposure to personnel: A) increase ventilation of the area with local exhaust ventilation. B) personnel can use an approved, appropriately fitted respirator with organic vapour cartridge or canisters and particulate filters. C) use closed systems for transferring and processing this material. Also refer to sections 2 and 7.
Respiratory Equipment	Do not inhale gases / fumes / aerosols. Certified respiratory protective device recommended.
Other protection	Avoid skin contact. Wear suitable protective clothing. Suitable type of protective clothing: In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605 to prevent skin contact. In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034 to prevent skin contact. Work clothing worn by personnel shall be laundered regularly. After contact with the product, all parts of the body that have been soiled must be washed.
Hygiene measures	Good personal hygiene practices are always advisable, especially when working with chemicals/oils.
Skin protection	Wear protective clothing to reduce the risk of skin and eye contact.
Personal protection	Avoid inhalation of the product. Avoid contact with skin and eyes.
Process conditions	Ensure area is well ventilated. Avoid vapour inhalation. Safety shower & eye bath.
Environmental exposure controls	Avoid discharging into drainage water.

### SECTION 9: Physical and chemical properties

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

Appearance	Liquid
Colour	Pale yellow
Odour	Characteristic
Relative Density	0.885 @ 20°C
Flash Point (°C)	71°C
Refractive Index	APPROX. 1.40 @ 20°C
Melting Point (°C)	No additional data available
Solubility	Soluble in oil and ethanol, not soluble in water.
Auto-ignition temperature (°C)	No additional data available.

#### 9.2 Other information

N/A

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity



## Lavender Essential Oil

### SECTION 10: Stability and reactivity

Not applicable

#### 10.2 Chemical stability

Stable under suggested storage conditions (<15°C)

#### 10.3 Possibility of hazardous reactions

No

#### 10.4 Conditions to avoid

Storage at high temperatures. Do not store above 15°C

#### 10.5 Incompatible materials

Avoid concentrated acids, alkalis & oxidising agents.

#### 10.6 Hazardous decomposition products

This product does not decompose under normal conditions. Under fire conditions the product will produce a mixture of irritating fumes & smoke & carbon monoxide & dioxide.

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects.

Acute toxicity:	CAMPHOR L(XN68)=10% X (CAS: 76-22-2) ORAL ROUTE : LD50 = 1500 MG/KG INHALATION ROUTE : LC50 = 1.5 MG/L EUCALYPTOL (CAS: 470-82-6) ORAL ROUTE : LD50 = 2480 MG/KG LINALOOL (CAS: 78-70-6) ORAL ROUTE : LD50 = 2790 MG/KG.
Skin irritation	Considered a skin irritant (Route: Drm). There may be irritation and redness at site of contact
Eye damage/irritation	There may be irritation and redness. Eyes will water profusely.
Respiratory or skin sensitisation:	On ingestion: there may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting. On inhalation: there may be irritation of the throat with a feeling of tightness in the chest.
Germ cell mutagenicity:	N/A
Carcinogenicity:	N/A
Reproductive toxicity:	N/A
STOT-single exposure:	N/A
STOT-repeated exposure:	N/A
Aspiration hazard:	May be fatal if swallowed and enters airways
Other information:	N/A

### SECTION 12: Ecological information

#### 12.1 Toxicity

Aquatic life: very toxic to aquatic life with long lasting effects.

Fish/aquatic vertebrates: no additional data available.

PNECs: no additional data available.

#### 12.2 Persistence and degradability

This material is considered readily biodegradable, therefore does not fulfil the criteria for persistence

#### 12.3 Bioaccumulation potential

N/A

#### 12.4 Mobility in soil

This material is considered readily biodegradable, therefore simulation tests in surface water, sediment and soil are not required in accordance with column 2 of REACH Annex IX.

#### 12.5 Results of PBT and VPVB assessment

This substance does not meet the PBT/VPVB criteria of REACH, Annex XIII

#### 12.6 Other adverse effects

Do not allow product to enter streams, sewers or other waterways.




## Lavender Essential Oil

### SECTION 13: Disposal considerations

#### 13.1 Waste Treatment Methods

Always recover spilled product. Discard waste material with authorized waste management services. Act in accordance with local & national waste regulations. Do not reuse container.

### SECTION 14: Transport information

UN Shipping Name	Environmentally Hazardous Substance																																																																									
UN Number	ROAD: 3082 SEA: 3082 AIR: 3082																																																																									
Transport hazard class(es)	ADR/RID/ADN CLASS: 9 IMDG CLASS: 9 ICAO CLASS/DIVISION: 9  																																																																									
Packing group	ADR/RID/ADN PACKING GROUP III IMDG PACKING GROUP III ICAO PACKING GROUP III																																																																									
Special precautions for user	<p>ADR/RID</p> <table border="1"> <thead> <tr> <th>CLASS</th> <th>CODE</th> <th>PACK GR.</th> <th>LABEL</th> <th>IDENT.</th> <th>LQ</th> <th>PROVIS.</th> <th>EQ</th> <th>CAT.</th> <th>TUNNEL</th> </tr> </thead> <tbody> <tr> <td>9</td> <td>M6</td> <td>III</td> <td>9</td> <td>90</td> <td>5 L</td> <td>274 335</td> <td>601 E1</td> <td>3</td> <td>E</td> </tr> </tbody> </table> <p>IMDG</p> <table border="1"> <thead> <tr> <th>CLASS</th> <th>2°LABEL</th> <th>PACK GR.</th> <th>LQ</th> <th>EMS</th> <th>PROVIS.</th> <th>EQ</th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>F-A,S-F</td> <td>274 335</td> <td>E1</td> <td></td> <td></td> <td></td> <td>9</td> <td>-</td> <td>III</td> <td>5 L</td> </tr> </tbody> </table> <p>IATA</p> <table border="1"> <thead> <tr> <th>CLASS</th> <th>2°LABEL</th> <th>PACK GR.</th> <th>PASSAGER</th> <th>PASSAGER</th> <th>CARGO</th> <th>CARGO NOTE</th> <th>EQ</th> </tr> </thead> <tbody> <tr> <td>9</td> <td>-</td> <td>III</td> <td>964</td> <td>450 L</td> <td>964</td> <td>450 L A97 / A158</td> <td>E1</td> </tr> <tr> <td>9</td> <td>-</td> <td>III</td> <td>Y964</td> <td>30 KG G</td> <td>- -</td> <td>A97 / A158</td> <td>E1</td> </tr> </tbody> </table> <p>FOR LIMITED QUANTITIES, SEE PART 2.7 OF THE OACI/IATA AND CHAPTER 3.4 OF THE ADR AND IMDG. FOR EXCEPTED QUANTITIES, SEE PART 2.6 OF THE OACI/IATA AND CHAPTER 3.5 OF THE ADR AND IMDG.</p>										CLASS	CODE	PACK GR.	LABEL	IDENT.	LQ	PROVIS.	EQ	CAT.	TUNNEL	9	M6	III	9	90	5 L	274 335	601 E1	3	E	CLASS	2°LABEL	PACK GR.	LQ	EMS	PROVIS.	EQ				F-A,S-F	274 335	E1				9	-	III	5 L	CLASS	2°LABEL	PACK GR.	PASSAGER	PASSAGER	CARGO	CARGO NOTE	EQ	9	-	III	964	450 L	964	450 L A97 / A158	E1	9	-	III	Y964	30 KG G	- -	A97 / A158	E1
CLASS	CODE	PACK GR.	LABEL	IDENT.	LQ	PROVIS.	EQ	CAT.	TUNNEL																																																																	
9	M6	III	9	90	5 L	274 335	601 E1	3	E																																																																	
CLASS	2°LABEL	PACK GR.	LQ	EMS	PROVIS.	EQ																																																																				
F-A,S-F	274 335	E1				9	-	III	5 L																																																																	
CLASS	2°LABEL	PACK GR.	PASSAGER	PASSAGER	CARGO	CARGO NOTE	EQ																																																																			
9	-	III	964	450 L	964	450 L A97 / A158	E1																																																																			
9	-	III	Y964	30 KG G	- -	A97 / A158	E1																																																																			
Transport in bulk according to annex II of MARPOL 73/78 & the IBC code.	None																																																																									

### SECTION 15: Regulatory information

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

EU Directives	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18th Dec 2006 Concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 199/45/EC and repealing Council Regulation Council Regulation (EEC) No793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, and 93/105/EEC and 2000/21/EC including amendments.
---------------	---



## Lavender Essential Oil

### SECTION 15: Regulatory information

Statutory Instruments	The Chemicals (Hazard Information and Packaging for Supply Regulations 2009 (S.I. 2009 No 716).
Approved Code of Practice	Classification and Labelling of Substances and Preparations Dangerous for Supply. Safety Data Sheets for Substances and Preparations
Guidance Notes	Workplace Exposure Limits EH40. CHIP for everyone HSG 108.

#### 15.2 Chemical safety assessment

Assessment has not been carried out as this is a non-hazardous material according to article 31 of REACH 1907/2006.

### SECTION 16: Other information

Hazard and/ or precautionary statements in full	<p>H226 flammable liquid and vapour.                  H228 flammable solid.                  H302 harmful if swallowed.                  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.                  H400 very toxic to aquatic life.                  H410 very toxic to aquatic life with long lasting effects.</p>
---	---

Complies with REACH guidance for SDS as circulated by ECHA 2011.

#### Disclaimer:

All the information in this leaflet is to the best of our knowledge. However, neither can we guarantee the accuracy of any of the information or data contained within. It is not, and should not be construed as, a guarantee or warranty, or a part of our contractual or other legal obligations. We assume no responsibility for any loss, damage or expense, direct or consequential arising out of the use of this product.

Date last revised	2020/09/20
-------------------	------------





## Lavender Essential Oil