

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Angelica root CO<sub>2</sub>-se extract\_010.002

Print date: 19.12.2014

Product code: 010.002

Page 1 of 9

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

##### 1.1. Product identifier

Angelica root CO<sub>2</sub>-se extract\_010.002

##### Further trade names

Angelikawurzel CO<sub>2</sub>-se Extrakt (ökol), Typ Nr. 010.002-----  
Angelica root CO<sub>2</sub>-se extract (organic), type no. 010.002

CAS No: 84775-41-7

EC No: 283-871-1

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

##### Use of the substance/mixture

In food, pharmaceutical and cosmetic products  
Restricted to professional users.

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

Company name:	Flavex Naturextrakte GmbH	
Street:	Nordstr. 7	
Place:	D-66780 Rehlingen-Siersburg	
Telephone:	+49 (0)6835/9195-0	Telefax: +49 (0)6835/919595
e-mail:	info@flavex.com	
Contact person:	J. Sewerin	
Internet:	www.flavex.com	
Responsible Department:	Poison information center Freiburg	

##### 1.4. Emergency telephone number:

+49 (0)761/19240

#### SECTION 2: Hazards identification

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

Indications of danger: C1 - Carc. Cat. 1, Xn - Harmful, N - Dangerous for the environment

R phrases:

May cause cancer.

May cause sensitisation by skin contact.

Toxic to aquatic organisms.

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

Harmful: may cause lung damage if swallowed.

##### GHS classification

Hazard categories:

Respiratory/skin sensitization: Resp. Sens. 1

Respiratory/skin sensitization: Skin Sens. 1

Germ cell mutagenicity: Muta. 1

Carcinogenicity: Carc. 1

Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

May cause genetic defects.

May cause cancer.

Toxic to aquatic life with long lasting effects.

##### 2.2. Label elements

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Angelica root CO<sub>2</sub>-se extract\_010.002

Print date: 19.12.2014

Product code: 010.002

Page 2 of 9

#### Hazardous components which must be listed on the label

Angelica archangelica, ext.

Signal word:

Danger

Pictograms:

GHS07-GHS08-GHS09



#### Hazard statements

- |      |  |
|------|--|
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H317 | May cause an allergic skin reaction.                                       |
| H340 | May cause genetic defects.   |
| H350 | May cause cancer.  |
| H411 | Toxic to aquatic life with long lasting effects.                           |

#### Precautionary statements

- |           |  |
|-----------|--|
| P261      | Avoid breathing 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. |
| P285      | In case of inadequate ventilation wear respiratory protection.             |
| P302+P352 | IF ON SKIN: Wash with plenty of water.                                     |
| P363      | Wash contaminated clothing before reuse.                                   |

#### Special labelling of certain mixtures

- ~ 75 percent of the mixture consists of ingredient(s) of unknown toxicity.
- Contains ~ 75 % of components with unknown hazards to the aquatic environment.

#### 2.3. Other hazards

Special skid risk by leaking/spilling product.

Contains < 0,5 % linalool  
< 5 % limonene [CAS-no. 5989-27-5]  
May cause allergic reactions.

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

##### Chemical characterization

INCI-name (CTFA): Angelica Archangelica (Angelica) Root Extract,  
CAS-no. 84775-41-7 EC-no. (EINECS/ELINCS): 283-871-1

essential oil content: 20 - 35 ml / 100 g  
contains a.o. alpha pinene, alpha phellandrene, beta phellandrene, coumarin derivatives

##### Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
283-871-1	Angelica archangelica, ext.	100 %
84775-41-7	Carc. Cat. 1, Xn - Harmful, N - Dangerous for the environment R45-43-51-53-65	
	Resp. Sens. 1, Skin Sens. 1, Muta. 1, Carc. 1, Aquatic Chronic 2; H334 H317 H340 H350 H411	

Full text of R and H phrases: see Section 16.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Angelica root CO<sub>2</sub>-se extract\_010.002

Print date: 19.12.2014

Product code: 010.002

Page 3 of 9

#### Further Information

no solvent residues

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information

In case of accident or if you feel unwell, seek medical advice immediately (show safety data sheet if possible).

Seek medical attention if problems persist.

##### After inhalation

Provide fresh air.

##### After contact with skin

After contact with skin, wash immediately with: Water and soap.

Seek medical attention if problems persist.

##### After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart.

Consult an ophthalmologist.

##### After ingestion

Rinse mouth immediately and drink large quantities of water. Caution if victim vomits: Risk of aspiration!

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

no data available

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

no data available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media

foam, CO<sub>2</sub>, powder

##### Unsuitable extinguishing media

water stream

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

formation of dangerous fumes possible

#### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

#### Additional information

none

### SECTION 6: Accidental release measures

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

Avoid contact with skin and eyes, concentrated extracts should not be swallowed.

Wear personal protection equipment.

Provide adequate ventilation.

Wear respiratory protection when in the presence of vapour, dust, and aerosols.

#### 6.2. Environmental precautions

keep away from canalisation, waterway, groundwater

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Angelica root CO<sub>2</sub>-se extract\_010.002

Print date: 19.12.2014

Product code: 010.002

Page 4 of 9

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

suck up with oil binding media. Remove mechanically, placing in appropriate containers for disposal.

### **SECTION 7: Handling and storage**

#### **7.1. Precautions for safe handling**

##### **Advice on safe handling**

Avoid contact with skin and eyes, concentrated extracts should not be swallowed.

wear splash goggles and oilresistent gloves

Do not breathe gas/fumes/vapour/spray.

##### **Advice on protection against fire and explosion**

Keep away from sources of ignition - No smoking.

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

##### **Requirements for storage rooms and vessels**

no special measures necessary

##### **Further information on storage conditions**

keep dark and dry, avoid heat

store in tightly closed container

#### **7.3. Specific end use(s)**

no data available

### **SECTION 8: Exposure controls/personal protection**

#### **8.1. Control parameters**

#### **8.2. Exposure controls**

##### **Protective and hygiene measures**

remove contaminated clothes

##### **Eye/face protection**

wear splash goggles

##### **Hand protection**

When handling chemical substances, chemical protective clothing with CE label (including a four digit code) must be worn. German Industry Norms (DIN) / European Norms (EN): EN 374

##### **Skin protection**

wear clothing as usual in chemical industry, remove contaminated clothes. After contact with skin, wash immediately with: Water and soap.

##### **Respiratory protection**

do not breathe vapour / aerosol

Respiratory protection required in case of: aerosol or mist generation.

### **SECTION 9: Physical and chemical properties**

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

Physical state:	clear oil
Colour:	yellow - brown
Odour:	characteristic

##### **Test method**

pH-Value:	no data available
-----------	-------------------

##### **Changes in the physical state**

Melting point:	no data available
----------------	-------------------

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Angelica root CO<sub>2</sub>-se extract\_010.002

Print date: 19.12.2014

Product code: 010.002

Page 5 of 9

Initial boiling point and boiling range: no data available  
Sublimation point: no data available  
Softening point: no data available  
Pour point: no data available  
no data available: no data available  
Flash point: > 61 °C closed cup

#### Flammability

Solid: no data available  
Gas: no data available

#### Explosive properties

no data available

Lower explosion limits: no data available  
Upper explosion limits: no data available  
Ignition temperature: no data available

#### Auto-ignition temperature

Solid: no data available  
Gas: no data available

Decomposition temperature: no data available

#### Oxidizing properties

no data available

Vapour pressure: no data available  
Density (at 20 °C): 0,97 - 1,08 g/cm<sup>3</sup> pycnometer  
Bulk density: no data available  
Water solubility: insoluble

#### Solubility in other solvents

good soluble in fat phases

Partition coefficient: no data available  
Viscosity / dynamic: no data available  
Viscosity / kinematic: no data available  
Flow time: no data available  
Vapour density: no data available  
Evaporation rate: no data available  
Solvent separation test: no data available  
Solvent content: no solvent residues

#### 9.2. Other information

Solid content: no data available

no data available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

no data available

#### 10.2. Chemical stability

no data available

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Angelica root CO<sub>2</sub>-se extract\_010.002

Print date: 19.12.2014

Product code: 010.002

Page 6 of 9

#### 10.3. Possibility of hazardous reactions

no data available

#### 10.4. Conditions to avoid

heat, open flame, sun light

#### 10.5. Incompatible materials

Oxidizing agents.

#### 10.6. Hazardous decomposition products

none - when carefully used

#### Further information

no decomposition in the application field

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Toxicokinetics, metabolism and distribution

According to our knowledge, the chemical, physical and toxicological properties have not been examined extensively.

##### Acute toxicity

no data available

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
84775-41-7	Angelica archangelica, ext.				
	oral	LD50	7575 mg/kg		ATEmix calculated:

##### Irritation and corrosivity

no data available

##### Sensitising effects

may cause sensitization by skin contact

##### STOT-single exposure

no data available

##### Severe effects after repeated or prolonged exposure

no data available

##### Carcinogenic/mutagenic/toxic effects for reproduction

Evidence exists for human carcinogenicity.

photo-carcinogenic.

Evidence exists for human germ cell mutagenicity.

##### Aspiration hazard

Harmful: may cause lung damage if swallowed.

##### Further information

Frequently or prolonged contact with skin may cause dermal irritation.

Acute toxicity, irritation of the skin and mucous membrane, and mutagenic potential of the preparation assessed by the manufacturer on the basis of the data sheets available on the main components.

Information gaps exist on some of the main individual components. However, according to the experience of the manufacturer, no dangers above and beyond those on the product label are to be expected.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Angelica root CO<sub>2</sub>-se extract\_010.002

Print date: 19.12.2014

Product code: 010.002

Page 7 of 9

Under appropriate use there are no ecological problems to expect

#### **12.2. Persistence and degradability**

no data available

#### **12.3. Bioaccumulative potential**

no data available

#### **12.4. Mobility in soil**

no data available

#### **12.5. Results of PBT and vPvB assessment**

no data available

#### **12.6. Other adverse effects**

no data available

#### **Further information**

no heavy metals and inorganic components

### SECTION 13: Disposal considerations

#### **13.1. Waste treatment methods**

##### **Advice on disposal**

in accordance with valid regulations

##### **Waste disposal number of waste from residues/unused products**

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing dangerous substances  
Classified as hazardous waste.

##### **Contaminated packaging**

in accordance with valid regulations

### SECTION 14: Transport information

#### **Land transport (ADR/RID)**

##### **14.1. UN number:**

UN 3082

##### **14.2. UN proper shipping name:**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(contains alpha pinene and Limonene)

##### **14.3. Transport hazard class(es):**

9

##### **14.4. Packing group:**

III

Hazard label:

9



Classification code:

M6

Special Provisions:

274 335 601

Limited quantity:

5 L

Transport category:

3

Hazard No:

90

Tunnel restriction code:

E

##### **Other applicable information (land transport)**

E1

#### **Inland waterways transport (ADN)**

##### **14.1. UN number:**

UN 3082

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Angelica root CO<sub>2</sub>-se extract\_010.002

Print date: 19.12.2014

Product code: 010.002

Page 8 of 9

**14.2. UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(contains alpha pinene and Limonene)

**14.3. Transport hazard class(es):** 9

**14.4. Packing group:** III

Hazard label: 9



Classification code: M6  
Special Provisions: 274 335 601  
Limited quantity: 5 L

**Other applicable information (inland waterways transport)**

E1

**Marine transport (IMDG)**

**14.1. UN number:** UN 3082

**14.2. UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(contains alpha-pinene and limonene)

**14.3. Transport hazard class(es):** 9

**14.4. Packing group:** III

Hazard label: 9



Special Provisions: 274, 335  
Limited quantity: 5 L  
EmS: F-A, S-F

**Other applicable information (marine transport)**

E1

**Air transport (ICAO)**

**14.1. UN number:** UN 3082

**14.2. UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(contains alpha-pinene and limonene)

**14.3. Transport hazard class(es):** 9

**14.4. Packing group:** III

Hazard label: 9



Special Provisions: A97 A158  
Limited quantity Passenger: 30 kg G  
IATA-packing instructions - Passenger: 964  
IATA-max. quantity - Passenger: 450 L  
IATA-packing instructions - Cargo: 964  
IATA-max. quantity - Cargo: 450 L

**Other applicable information (air transport)**

: Y964

E1



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Angelica root CO<sub>2</sub>-se extract\_010.002

Print date: 19.12.2014

Product code: 010.002

Page 9 of 9

#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: yes



Danger releasing substance: alpha pinene and Limonene

#### 14.6. Special precautions for user

no data available

#### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

no data available

### SECTION 15: Regulatory information

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

##### EU regulatory information

1999/13/EC (VOC): 3 % (29,1 g/l)

##### National regulatory information

Employment restrictions: Observe employment restrictions for young people. Observe employment restrictions for child bearing mothers and nursing. Observe employment restrictions for women of child-bearing age.

Water contaminating class (D): 2 - water contaminating

Skin resorption/Sensitization: Causes allergic hypersensitivity reactions.

#### 15.2. Chemical safety assessment

For this substance a chemical safety assessment is not required.

### SECTION 16: Other information

#### Changes

Reason for revision: general revision of whole document

#### Full text of R phrases referred to under Sections 2 and 3

- 43 May cause sensitisation by skin contact.
- 45 May cause cancer.
- 51 Toxic to aquatic organisms.
- 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 53 May cause long-term adverse effects in the aquatic environment.
- 65 Harmful: may cause lung damage if swallowed.

#### Full text of H statements referred to under Sections 2 and 3

- H317 May cause an allergic skin reaction.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H340 May cause genetic defects.
- H350 May cause cancer.
- H411 Toxic to aquatic life with long lasting effects.

#### Further Information

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.