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

### 1.1 Product identifier

**Identification of the substance**
- Absinthe oil

**Article number**
- 6909

**Registration number (REACH)**
- not relevant (mixture)

**EC number**
- 284-503-2

**CAS number**
- 8008-93-3

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

**Identified uses:**
- laboratory chemical

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

**Competent person responsible for the safety data sheet**
- Department Health, Safety and Environment

**e-mail (competent person)**
- sicherheit@carlroth.de

### 1.4 Emergency telephone number

**Emergency information service**
- Poison Centre Munich: +49/(0)89 19240

**SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

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

<table>
<thead>
<tr>
<th>Section</th>
<th>Hazard class</th>
<th>Hazard class and category</th>
<th>Hazard statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.1O</td>
<td>acute toxicity (oral)</td>
<td>(Acute Tox. 4)</td>
<td>H302</td>
</tr>
<tr>
<td>3.4S</td>
<td>skin sensitisation</td>
<td>(Skin Sens. 1)</td>
<td>H317</td>
</tr>
<tr>
<td>4.1C</td>
<td>hazardous to the aquatic environment - chronic hazard</td>
<td>(Aquatic Chronic 3)</td>
<td>H412</td>
</tr>
</tbody>
</table>
For full text of Hazard- and EU Hazard-statements: see SECTION 16.

2.2 Label elements

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

Signal word: Warning

Pictograms

Hazard statements
H302 Harmful if swallowed.
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

Precautionary statements - prevention
P273 Avoid release to the environment.
P280 Wear protective gloves.

Precautionary statements - response
P302+P352 IF ON SKIN: Wash with plenty of soap and water.

Hazardous ingredients for labelling: α+β-Thuione

Labelling of packages where the contents do not exceed 125 ml
Signal word: Warning

Symbol(s)

H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.
P280 Wear protective gloves.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.

2.3 Other hazards

There is no additional information.
SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description of the mixture
Composition/information on ingredients.

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>Identifier</th>
<th>wt%</th>
<th>Classification acc. to 1272/2008/EC</th>
<th>Pictograms</th>
</tr>
</thead>
<tbody>
<tr>
<td>α+β-Thujone</td>
<td>CAS No 76231-76-0</td>
<td>40</td>
<td>Acute Tox. 4 / H302 Skin Sens. 1 / H317 Aquatic Chronic 3 / H412</td>
<td>!</td>
</tr>
</tbody>
</table>

Remarks
For full text of Hazard- and EU Hazard-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes
Do not leave affected person unattended.

Following inhalation
Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

Following skin contact
Wash with plenty of soap and water. In case of skin reactions, consult a physician.

Following eye contact
Rinse cautiously with water for several minutes. In all cases of doubt, or when symptoms persist, seek medical advice.

Following ingestion
Rinse mouth immediately and drink plenty of water. Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed
Irritant effects, Allergic reactions, Headache, Vertigo, Nausea, Vomiting, Diarrhoea, Spasms, Unconsciousness

4.3 Indication of any immediate medical attention and special treatment needed
none
SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Co-ordinate fire-fighting measures to the fire surroundings
water spray, foam, dry extinguishing powder, carbon dioxide (CO2)

Unsuitable extinguishing media
water jet

5.2 Special hazards arising from the substance or mixture

Combustible.

Hazardous combustion products
in case of fire and/or explosion do not breathe fumes

5.3 Advice for firefighters

Do not allow firefighting water to enter drains or water courses. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel
Do not breathe vapour/spray. Avoid contact with skin and eyes.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of 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
Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Other information relating to spills and releases
Place in appropriate containers for disposal. Ventilate affected area.

Reference to other sections
SECTION 7: Handling and storage

7.1 Precautions for safe handling
Provide adequate ventilation. Avoid exposure.
• Measures to prevent fire as well as aerosol and dust generation
  ![Warning Sign]
Keep away from sources of ignition - No smoking.

Advice on general occupational hygiene
Keep away from food, drink and animal feedingstuffs. Wash hands before breaks and after work.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed. May cause decomposition by long-term light influence.

Incompatible substances or mixtures
Observe hints for combined storage.

Consideration of other advice
• Ventilation requirements
  Use local and general ventilation.
• Specific designs for storage rooms or vessels
  Recommended storage temperature: 15 - 25 °C.

7.3 Specific end use(s)
No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
National limit values
Occupational exposure limit values (Workplace Exposure Limits)
Data are not available. Data are not available.

8.2 Exposure controls
Individual protection measures (personal protective equipment)

Eye/face protection
Use safety goggle with side protection.

Skin protection
• hand protection
Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. 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.
Absinthe oil natural

section number: 6909

- type of material
  NBR (Nitrile rubber)
- material thickness
  >0,11 mm
- breakthrough times of the glove material
  >480 minutes (permeation: level 6)
- other protection measures
  Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

Respiratory protection necessary at: Aerosol or mist formation.

Environmental exposure controls
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 (fluid)
Colour: yellowish brown
Odour: characteristic
Odour threshold: No data available

Other physical and chemical parameters
pH (value): This information is not available.
Melting point/freezing point: not determined
Initial boiling point and boiling range: This information is not available.
Flash point: 67 °C
Evaporation rate: no data available
Flammability (solid, gas): not relevant (fluid)

Explosive limits
- lower explosion limit (LEL): this information is not available
- upper explosion limit (UEL): this information is not available

Explosion limits of dust clouds: not relevant
Vapour pressure: This information is not available.
Density: 0,85 - 0,95 g/cm³
Vapour density: This information is not available.
Bulk density: Not applicable
Relative density: Information on this property is not available.
Absinthe oil natural

article number: 6909

Solubility(ies)
Water solubility                     insoluble

Partition coefficient
n-octanol/water (log KOW)              This information is not available.

Auto-ignition temperature            Information on this property is not available.

Decomposition temperature            no data available

Viscosity                             not determined

Explosive properties                 Shall not be classified as explosive

Oxidising properties                none

9.2 Other information
There is no additional information.

Refractive index                     1.46 - 1.48

SECTION 10: Stability and reactivity

10.1 Reactivity
In case of warming: Vapours can form explosive mixtures with air.

10.2 Chemical stability
The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions
Violent reaction with: Alkalis, Oxidisers, Acids

10.4 Conditions to avoid
Keep away from heat.

10.5 Incompatible materials
There is no additional information.

10.6 Hazardous decomposition products
Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

• Acute toxicity of components of the mixture

<table>
<thead>
<tr>
<th>Name of substance</th>
<th>CAS No</th>
<th>Exposure route</th>
<th>ATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>α+β-Thujone</td>
<td>76231-76-0</td>
<td>oral</td>
<td>500 mg/kg</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation
Shall not be classified as corrosive/irritant to skin.
Serious eye damage/eye irritation
Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitisation
May cause an allergic skin reaction. May cause sensitization by skin contact.

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

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

Aspiration hazard
Shall not be classified as presenting an aspiration hazard.

Symptoms related to the physical, chemical and toxicological characteristics

- If swallowed
  nausea, abdominal pain, vomiting, diarrhoea

- If in eyes
  irritant effects

- If inhaled
  Irritating to respiratory system, dizziness, headache, vertigo

- If on skin
  Frequently or prolonged contact with skin may cause dermal irritation, Allergic reactions

Other information
Circulatory collapse, Cardiac arrhythmias, Spasms, Unconsciousness, Liver and kidney damage

SECTION 12: Ecological information

12.1 Toxicity
Harmful to aquatic life with long lasting effects.

Aquatic toxicity (chronic)
May cause long-term adverse effects in the aquatic environment.

12.2 Process of degradability
Data are not available.

12.3 Bioaccumulative potential
Data are not available.

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
This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

Sewage disposal-relevant information
Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

13.2 Relevant provisions relating to waste
The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

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

SECTION 14: Transport information

14.1 UN number
(not subject to transport regulations)

14.2 UN proper shipping name
not relevant

14.3 Transport hazard class(es)
Class
not relevant

14.4 Packing group
not relevant

14.5 Environmental hazards
none (non-environmentally hazardous acc. to the dangerous goods regulations)

14.6 Special precautions for user
There is no additional information.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code
The cargo is not intended to be carried in bulk.

14.8 Information for each of the UN Model Regulations
• Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)
Not subject to ADR, RID and ADN.
• International Maritime Dangerous Goods Code (IMDG)
Not subject to IMDG.
• International Civil Aviation Organization (ICAO-IATA/DGR)
Not subject to ICAO-IATA.
None of the ingredients are listed.

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

SECTION 15: Regulatory information

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

Relevant provisions of the European Union (EU)

• Regulation 649/2012/EU concerning the export and import of hazardous chemicals (PIC)
  None of the ingredients are listed.
• Regulation 1005/2009/EC on substances that deplete the ozone layer (ODS)
  None of the ingredients are listed.
• Regulation 850/2004/EC on persistent organic pollutants (POP)
  None of the ingredients are listed.
• Restrictions according to REACH, Annex XVII
  None of the ingredients are listed.
• List of substances subject to authorisation (REACH, Annex XIV)
  None of the ingredients are listed.
• Limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products (2004/42/EC, Deco-Paint Directive)
  VOC content 40 %
• Directive on industrial emissions (VOCs, 2010/75/EU)
  VOC content 40 %

  Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) - Annex II
  None of the ingredients are listed.

  Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)
  None of the ingredients are listed.

  Directive 2000/60/EC establishing a framework for Community action in the field of water policy (WFD)
  None of the ingredients are listed.

National inventories
- EINECS/ELINCS/NLP (Europe)

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.
### Abbreviations and acronyms

<table>
<thead>
<tr>
<th>Abbr.</th>
<th>Descriptions of used abbreviations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Tox.</td>
<td>acute toxicity</td>
</tr>
<tr>
<td>ADN</td>
<td>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)</td>
</tr>
<tr>
<td>ADR</td>
<td>Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)</td>
</tr>
<tr>
<td>Aquatic Chronic</td>
<td>hazardous to the aquatic environment - chronic hazard</td>
</tr>
<tr>
<td>ATE</td>
<td>Acute Toxicity Estimate</td>
</tr>
<tr>
<td>CAS</td>
<td>Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)</td>
</tr>
<tr>
<td>CLP</td>
<td>Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures</td>
</tr>
<tr>
<td>CMR</td>
<td>Carcinogenic, Mutagenic or toxic for Reproduction</td>
</tr>
<tr>
<td>DGR</td>
<td>Dangerous Goods Regulations (see IATA/DGR)</td>
</tr>
<tr>
<td>EC No</td>
<td>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)</td>
</tr>
<tr>
<td>EINECS</td>
<td>European Inventory of Existing Commercial Chemical Substances</td>
</tr>
<tr>
<td>ELINCS</td>
<td>European List of Notified Chemical Substances</td>
</tr>
<tr>
<td>GHS</td>
<td>&quot;Globally Harmonized System of Classification and Labelling of Chemicals&quot; developed by the United Nations</td>
</tr>
<tr>
<td>IATA</td>
<td>International Air Transport Association</td>
</tr>
<tr>
<td>IATA/DGR</td>
<td>Dangerous Goods Regulations (DGR) for the air transport (IATA)</td>
</tr>
<tr>
<td>ICAO</td>
<td>International Civil Aviation Organization</td>
</tr>
<tr>
<td>IMDG</td>
<td>International Maritime Dangerous Goods Code</td>
</tr>
<tr>
<td>Index No</td>
<td>the Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008</td>
</tr>
<tr>
<td>MARPOL</td>
<td>International Convention for the Prevention of Pollution from Ships (abbr. of &quot;Marine Pollutant&quot;)</td>
</tr>
<tr>
<td>NLP</td>
<td>No-Longer Polymer</td>
</tr>
<tr>
<td>PBT</td>
<td>Persistent, Bioaccumulative and Toxic</td>
</tr>
<tr>
<td>REACH</td>
<td>Registration, Evaluation, Authorisation and Restriction of Chemicals</td>
</tr>
<tr>
<td>RID</td>
<td>Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)</td>
</tr>
<tr>
<td>Skin Sens.</td>
<td>skin sensitisation</td>
</tr>
<tr>
<td>VOC</td>
<td>Volatile Organic Compounds</td>
</tr>
<tr>
<td>vPvB</td>
<td>very Persistent and very Bioaccumulative</td>
</tr>
</tbody>
</table>
The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

### Key literature references and sources for data
- Regulation (EC) No. 1272/2008 (CLP, EU GHS)

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Text</th>
</tr>
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<tr>
<td>H302</td>
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