

MATERIAL SAFETY DATA SHEET  
According to 1907/2006/EC, Article 31, Latest Amendment

48949903

Revision: 15/09/2017  
Printing date: 10/11/2017**SECTION 01: Identification of the substance/mixture and of the company/undertaking**

1. Product identifier
  - Trade name:  
SHIU ESSENTIAL OIL R21750
  - CAS Number:  
8022-91-1
  - EC number:  
294-760-2
2. Relevant identified uses of the substance or mixture and uses advised against
  - Application of the substance / the preparation  
Aromatic ingredient(s). Industrial use only.
3. Details of the supplier of the safety data sheet
  - Manufacturer/Supplier:  
ROBERTET  
BP 52100 F-06131 GRASSE CEDEX  
Tel: +33 (0)4 93 40 33 66 (during normal opening times 8h-18h)  
Fax: +33 (0)4 93 70 68 09  
legis@robertet.com
4. Further information obtainable from:
  - ORFILA (INRS)
  - Emergency telephone number:  
+ 33 (0)1 45 42 59 59 (24h/24h ; 7/7)

**SECTION 02: Hazards identification**

1. Classification of the substance or mixture
  - Classification according to Regulation (EC) No 1272/2008



GHS07

Skin Irrit. 2 - H315 Causes skin irritation.  
Eye Irrit. 2 - H319 Causes serious eye irritation.  
Skin Sens. 1B - H317 May cause an allergic skin reaction.

- Additional information:  
Full text of H statements: see section 16
2. Label elements
    - Labelling according to Regulation (EC) No 1272/2008
    - Hazard pictograms



GHS07

- Signal word  
Warning
- Hazard-determining components of labelling:  
Linalool / Geraniol / d-limonene ((R)-p-mentha-1,8-diène)
- Hazard statements  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.
- Precautionary statements  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 Wash hands thoroughly after handling.  
P272 Contaminated work clothing should not be allowed out of the workplace.

\*

(continued on page 2)

48949903

Revision: 15/09/2017  
Printing date: 10/11/2017**PRODUCT : SHIU ESSENTIAL OIL R21750**

(continued of page 1)

P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P302+P352 IF ON SKIN: Wash with plenty of water.  
 P501 Dispose of contents/container in accordance with local/regional/ national/international regulations.

## 3. Other hazards

- Results of PBT and vPvB assessment
- PBT:  
Not applicable.
- vPvB:  
Not applicable.

**SECTION 03: Composition/information on ingredients**

- Chemical characterization
- CAS Number:

8022-91-1

- EINECS Number:

294-760-2

- Dangerous components:

<b>CAS Number</b>		<b>%</b>
<b>78-70-6</b>	<b>Linalool</b> <b>EC number: 201-134-4</b> <b>Skin Irrit. 2 - H315, Eye Irrit. 2 -</b> <b>H319, Skin Sens. 1B - H317</b>	<b>75,00-100,00</b>
<b>562-74-3</b>	<b>4-Terpinenol</b> <b>EC number: 209-235-5</b> <b>Acute Tox. 4 - H302, Skin Irrit. 2 -</b> <b>H315, Eye Irrit. 2 - H319</b>	<b>1,00- 5,00</b>
<b>106-24-1</b>	<b>Geraniol</b> <b>EC number: 203-377-1</b> <b>Eye Dam. 1 - H318; Skin Irrit. 2</b> <b>- H315, Skin Sens. 1 - H317</b>	<b>0,10- 1,00</b>
<b>5989-27-5</b>	<b>d-limonene ((R)-p-mentha-1,8-diène)</b> <b>EC number: 227-813-5</b> <b>Asp. Tox. 1 - H304; Flam. Liq. 3</b> <b>- H226; Skin Irrit. 2 - H315, Skin</b> <b>Sens. 1B - H317; Aquatic Acute 1 -</b> <b>H400, Aquatic Chronic 1 - H410</b>	<b>0,10- 1,00</b>

**SECTION 04: First aid measures**

- General information:  
Seek immediate medical advice.
  - After inhalation:  
Supply fresh air; consult doctor in case of complaints.
  - After skin contact:  
Immediately wash with water and soap and rinse thoroughly.
  - After eye contact:  
Rinse opened eye for several minutes under running water.
  - After swallowing:  
If symptoms persist consult doctor.
2. Information for doctor:
- Most important symptoms and effects, both acute and delayed  
No further relevant information available.
  - Indication of any immediate medical attention and special treatment needed  
No further relevant information available.

NL

(continued on page 3)

48949903

Revision: 15/09/2017  
Printing date: 10/11/2017**PRODUCT : SHIU ESSENTIAL OIL R21750***(continued of page 2)***SECTION 05: Firefighting measures**

1. Extinguishing media
  - Suitable extinguishing agents:  
CO<sub>2</sub>, sand, extinguishing powder first. In the absence of any other means of extinguishing, water can be used as an extinguishing agent.
  - For safety reasons unsuitable extinguishing agents:  
Non applicable
2. Special hazards arising from the substance or mixture  
No further relevant information available.
3. Advice for firefighters  
No specific advice

**SECTION 06: Accidental release measures**

1. Personal precautions, protective equipment and emergency procedures  
Wear protective equipment. Keep unprotected persons away.
2. Environmental precautions:  
Do not allow to enter sewers/ surface or ground water.
3. Methods and material for containment and cleaning up:  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.
4. Reference to other sections  
See Section 13 for disposal information.

**SECTION 07: Handling and storage**

1. Handling:
  - Precautions for safe handling  
Avoid contact with skin and eyes Wear appropriate protective equipments (gloves, glasses ...)
  - Information about fire - and explosion protection:  
Keep ignition sources away - Do not smoke.
2. Storage:
  - Requirements to be met by storerooms and receptacles:  
Avoid exposure to extreme temperatures. Avoid prolonged contact with certain plastic materials (PVC..)
  - Further information about storage conditions:  
None.

Specific end use(s)  
No further relevant information available.

**SECTION 08: Exposure controls/personal protection**

1. Control parameters
  - Ingredients with limit values that require monitoring at the workplace:
  - Additional information:  
The lists valid during the making were used as basis.
2. Exposure controls
  - Personal protective equipment:
    - General protective and hygienic measures:  
Avoid contact with the eyes and skin.
    - Respiratory protection: Not required.
    - Protection of hands: Protective gloves
    - Eye protection: Safety glasses
    - Body protection: Protective work clothing

NL

*(continued on page 4)*

48949903

Revision: 15/09/2017  
Printing date: 10/11/2017**PRODUCT : SHIU ESSENTIAL OIL R21750**

(continued of page 3)

**SECTION 09: Physical and chemical properties****Information on basic physical and chemical properties****General Information****Appearance:**

<b>Form:</b>	Fluid
<b>Odour:</b>	Characteristic
<b>pH-value:</b>	Not determined.

**Change in condition**

<b>Boiling point/Boiling range:</b>	> 35 °C
<b>Flash point:</b>	65 °C
<b>Flammability (solid, gaseous):</b>	Not applicable.
<b>Ignition temperature:</b>	
<b>Decomposition temperature:</b>	Not determined.
<b>Self-igniting:</b>	Not determined.
<b>Danger of explosion:</b>	Not determined.
<b>Explosion limits:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
<b>Vapour pressure:</b>	Not determined.
<b>Density:</b>	Not determined.
<b>Specific gravity</b>	0,8600 - 0,8700 (20°C)
<b>Solubility in / Miscibility with water:</b>	Not determined.
<b>Partition coefficient (n-octanol/water):</b>	Not determined.
<b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
<b>Additional information</b>	Not applicable.

**SECTION 10: Stability and reactivity**

1. Reactivity  
No known reaction with water
2. Chemical stability  
Good stability at conditions of use mentioned in point 7 and 10
3. Possibility of hazardous reactions  
Reacts with strong oxidising agents.
4. Conditions to avoid  
Avoid temperatures near the flash point (see Section 9). Avoid contact with oxidizing agents.
5. Incompatible materials:  
No further relevant information available.
6. Hazardous decomposition products:  
No dangerous decomposition products known.

NL

(continued on page 5)

48949903

Revision: 15/09/2017  
Printing date: 10/11/2017**PRODUCT : SHIU ESSENTIAL OIL R21750***(continued of page 4)***SECTION 11: Toxicological information**

## 1. Information on toxicological effects

- Acute toxicity:  
LD/LC50 values relevant for classification:  
**SHIU ESSENTIAL OIL R21750**  
Oral, LD50: 3270 mg/kg
- Skin corrosion / irritation  
Not available
- Serious eye damage / irritation  
Not available
- Respiratory / skin sensitization  
Not available
- Germ cell mutagenicity  
Not available
- Carcinogenicity  
Not available
- Reproductive toxicity  
Not available
- STOT single exposure  
Not available
- STOT repeated exposure  
Not available
- Aspiration hazard  
Not available

**SECTION 12: Ecological information**

## 1. Toxicity

- Aquatic toxicity:  
Not available

## 2. Persistence and degradability

Not available

## 3. Behaviour in environmental systems:

- Bioaccumulative potential  
Not available
- Mobility in soil  
Not available
- Results of PBT and vPvB assessment
- PBT:  
Not applicable.
- vPvB:  
Not applicable.

**SECTION 13: Disposal considerations**

## 1. Waste treatment methods

- Recommendation  
Must be specially treated adhering to official regulations.
- Uncleaned packaging:  
- Recommendation:

*(continued on page 6)*

MATERIAL SAFETY DATA SHEET  
According to 1907/2006/EC, Article 31, Latest Amendment

48949903

Revision: 15/09/2017  
Printing date: 10/11/2017

**PRODUCT : SHIU ESSENTIAL OIL R21750**

Disposal must be made according to official regulations.

*(continued of page 5)*

#### SECTION 14: Transport information

- UN-Number  
**ADR** Void  
**IMDG** Void  
**IATA** Void
- UN proper shipping name  
**ADR** Void  
**IMDG** Void  
**IATA** Void
- Transport hazard class(es)  
**ADR**  
**Class** Void  
**IMDG**  
**Class** Void  
**IATA**  
**Class** Void
- Packing group  
**ADR** Void  
**IMDG** Void  
**IATA** Void
- Environmental hazards:  
Not applicable.
- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code  
Not applicable.

#### SECTION 15: Regulatory information

1. Safety, health and environmental regulations/legislation specific for the substance or mixture
  - REGULATION (EC) No 1907/2006 ANNEX XVII  
Conditions of restriction: 3
  - National regulations:
  - Waterhazard class:  
Water hazard class 1 (Self-assessment): slightly hazardous for water.
2. Chemical safety assessment:  
A Chemical Safety Assessment has not been carried out.

#### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

1. Relevant phrases
 

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
2. Department issuing MSDS:

*(continued on page 7)*

## MATERIAL SAFETY DATA SHEET

According to 1907/2006/EC, Article 31, Latest Amendment

48949903

Revision: 15/09/2017  
Printing date: 10/11/2017**PRODUCT : SHIU ESSENTIAL OIL R21750***(continued of page 6)*

Legislation / Regulatory Affair Department

**3. Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

**4. Sources**

IFRA/IOFI Labelling Manual

- \* Data compared to the previous version altered.