

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 17.03.2016

Revision: 17.03.2016

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

**1.1 Product identifier**

**Trade name:** NEROLI OIL PURE

**Article number:** 2122

**CAS Number:**  
8016-38-4

**EC number:**  
277-143-2

**1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.

**Application of the substance / the mixture** Multi uses

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

**Manufacturer/Supplier:**

HButterbur and Sage Ltd, Aroma House

3-5 Cremyll Road, Reading,

Berkshire. RG1 8NQ. U.K

TEL + 44 (0) 1189 505100

FAX + 44 (0) 1189 576300

E-mail : labessentialoils@hreynaud.com

**Further information obtainable from:** Department Essential Oils

**1.4 Emergency telephone number:** + 44 (0) 1189 505100

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

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



GHS08 health hazard

Asp. Tox. 1      H304 May be fatal if swallowed and enters airways.



GHS05 corrosion

Eye Dam. 1      H318 Causes serious eye damage.



GHS09 environment

Aquatic Acute 1      H400 Very toxic to aquatic life.

Aquatic Chronic 1      H410 Very toxic to aquatic life with long lasting effects.



GHS07

Skin Irrit. 2      H315 Causes skin irritation.

Skin Sens. 1      H317 May cause an allergic skin reaction.

**2.2 Label elements**

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

The substance is classified and labelled according to the CLP regulation.

(Contd. on page 2)

GB

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 17.03.2016

Revision: 17.03.2016

Trade name: **NEROLI OIL PURE**

(Contd. of page 1)

**. Hazard pictograms**

GHS05 GHS07 GHS08 GHS09

**. Signal word** *Danger***. Hazard-determining components of labelling:***d-limonene**Beta pinene**Geraniol**Geranyl Acetate***. Hazard statements***H315 Causes skin irritation.**H318 Causes serious eye damage.**H317 May cause an allergic skin reaction.**H304 May be fatal if swallowed and enters airways.**H410 Very toxic to aquatic life with long lasting effects.***. Precautionary statements***P261 Avoid breathing dust/fume/gas/mist/vapours/spray.**P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.**P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.**P405 Store locked up.**P501 Dispose of contents/container in accordance with local/regional/national/international regulations.***. 2.3 Other hazards****. Results of PBT and vPvB assessment****. PBT:** Not applicable.**. vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

**. 3.1 Chemical characterisation: Substances****. CAS No. Description**

8016-38-4 Neroli oil

**. Identification number(s)****. EC number:** 277-143-2**. hazardous components:**

CAS: 78-70-6 EINECS: 201-134-4	Linalool ----- ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319	25-50%
CAS: 5989-27-5 EINECS: 227-813-5	<i>d-limonene</i> ----- ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin Irrit. 2, H315; Skin Sens. 1B, H317	10-25%
CAS: 127-91-3 EINECS: 204-872-5	<i>Beta pinene</i> ----- ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin Irrit. 2, H315; Skin Sens. 1B, H317	10-25%

(Contd. on page 3)

GB

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 17.03.2016

Revision: 17.03.2016

**Trade name: NEROLI OIL PURE**

(Contd. of page 2)

CAS: 115-95-7 EINECS: 204-116-4	Linalyl acetate ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319	2.5-10%
CAS: 13877-91-3 EINECS: 237-641-2	Cis beta ocimene ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304	2.5-10%
CAS: 98-55-5 EINECS: 202-680-6	p-menth-1-en-8-ol ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319	2.5-10%
CAS: 7212-44-4 EINECS: 230-597-5	Nerolidol ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	2.5-10%
CAS: 105-87-3 EINECS: 203-341-5	Geranyl Acetate ⚠ Skin Irrit. 2, H315; Skin Sens. 1B, H317; Aquatic Chronic 3, H412	2.5-10%
CAS: 106-24-1 EINECS: 203-377-1	Geraniol ⚠ Eye Dam. 1, H318; ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317	≤ 2.5%
CAS: 4602-84-0 EINECS: 225-004-1	Farnesol ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1B, H317	≤ 2.5%
CAS: 123-35-3 EINECS: 204-622-5	7-methyl-3-methyleneocta-1,6-diene ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319	≤ 2.5%
CAS: 80-56-8 EINECS: 201-291-9	Alpha pinene ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317	≤ 2.5%
CAS: 5392-40-5 EINECS: 226-394-6	citral ⚠ Skin Irrit. 2, H315; Skin Sens. 1B, H317	≤ 2.5%

#### SECTION 4: First aid measures

##### 4.1 Description of first aid measures

**General information:** Immediately remove any clothing soiled by the product.

##### After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

Supply fresh air.

##### After skin contact:

Immediately wash with water and soap and rinse thoroughly.

Immediately rinse with water.

If skin irritation continues, consult a doctor.

**After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

**After swallowing:** Inform doctor. Do not give milk or fatty oils.

**4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

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

No further relevant information available.

#### SECTION 5: Firefighting measures

##### 5.1 Extinguishing media

##### Suitable extinguishing agents:

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**For safety reasons unsuitable extinguishing agents:** Water with full jet

**5.2 Special hazards arising from the substance or mixture** Carbon monoxide (CO)

(Contd. on page 4)

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 17.03.2016

Revision: 17.03.2016

Trade name: **NEROLI OIL PURE**

(Contd. of page 3)

- . 5.3 Advice for firefighters
- . Protective equipment: No special measures required.

**SECTION 6: Accidental release measures**

- . 6.1 Personal precautions, protective equipment and emergency procedures  
Wear protective equipment. Keep unprotected persons away.
- . 6.2 Environmental precautions:  
Do not allow product to reach sewage system or any water course.  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.
- . 6.3 Methods and material for containment and cleaning up:  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Use neutralising agent.  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- . 6.4 Reference to other sections  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

**SECTION 7: Handling and storage**

- . 7.1 Precautions for safe handling  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- . Information about fire - and explosion protection: No special measures required.
- . 7.2 Conditions for safe storage, including any incompatibilities  
. Storage:  
. Requirements to be met by storerooms and receptacles: Store only in unopened original receptacles.  
. Information about storage in one common storage facility: Not required.  
. Further information about storage conditions:  
Keep receptacle tightly sealed.  
Store in the dark.
- . 7.3 Specific end use(s) No further relevant information available.

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

- . Additional information about design of technical facilities: No further data; see item 7.
- . 8.1 Control parameters  
. Ingredients with limit values that require monitoring at the workplace: Not required.  
. Additional information: The lists valid during the making were used as basis.
- . 8.2 Exposure controls  
. Personal protective equipment:  
. General protective and hygienic measures:  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Avoid contact with the skin.

(Contd. on page 5)

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 17.03.2016

Revision: 17.03.2016

**Trade name: NEROLI OIL PURE**

(Contd. of page 4)

Avoid contact with the eyes and skin.

. **Respiratory protection:** Not required.

. **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

. **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

. **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

. **Eye protection:**



Tightly sealed goggles

## SECTION 9: Physical and chemical properties

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

#### . General Information

##### . Appearance:

. <b>Form:</b>	Liquid
. <b>Colour:</b>	According to product specification
. <b>Odour:</b>	Characteristic

##### . Change in condition

. **Melting point/Melting range:** Undetermined.

. **Flash point (closed cup - ASTM D6450):** > 65 °C

. **Flammability (solid, gaseous):** Not applicable.

##### . Ignition temperature:

. **Decomposition temperature:** Not determined.

. **Self-igniting:** Not determined.

. **Danger of explosion:** Product does not present an explosion hazard.

##### . Density:

. **Evaporation rate** Not determined.

. **Solubility in / Miscibility with water:**

Not miscible or difficult to mix.

(Contd. on page 6)

GB

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 17.03.2016

Revision: 17.03.2016

Trade name: **NEROLI OIL PURE**

(Contd. of page 5)

. **9.2 Other information** No further relevant information available.

### SECTION 10: Stability and reactivity

- . **10.1 Reactivity** No further relevant information available.
- . **10.2 Chemical stability**
- . **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- . **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- . **10.4 Conditions to avoid** No further relevant information available.
- . **10.5 Incompatible materials:** No further relevant information available.
- . **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 11: Toxicological information

- . **11.1 Information on toxicological effects**
- . **Acute toxicity** Based on available data, the classification criteria are not met.

. **LD/LC50 values relevant for classification:**

#### 127-91-3 Beta pinene

Oral	LD50	5000 mg/kg (RAT)
Dermal	LD50	> 5000 bw mg/kg (LAP)

#### 105-87-3 Geranyl Acetate

Oral	LD50	6300 mg/kg (RAT)
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- . **Primary irritant effect:**
- . **Skin corrosion/irritation**  
Causes skin irritation.
- . **Serious eye damage/irritation**  
Causes serious eye damage.
- . **Respiratory or skin sensitisation**  
May cause an allergic skin reaction.
- . **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- . **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- . **Carcinogenicity** Based on available data, the classification criteria are not met.
- . **Reproductive toxicity** Based on available data, the classification criteria are not met.
- . **STOT-single exposure** Based on available data, the classification criteria are not met.
- . **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- . **Aspiration hazard**  
May be fatal if swallowed and enters airways.

### SECTION 12: Ecological information

- . **12.1 Toxicity**
- . **Aquatic toxicity:** No further relevant information available.
- . **12.2 Persistence and degradability** No further relevant information available.
- . **12.3 Bioaccumulative potential** No further relevant information available.
- . **12.4 Mobility in soil** No further relevant information available.
- . **Ecotoxicological effects:**
- . **Remark:** Very toxic for fish

(Contd. on page 7)

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 17.03.2016

Revision: 17.03.2016

Trade name: **NEROLI OIL PURE**

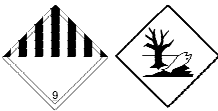
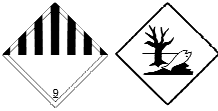
(Contd. of page 6)

- . **Additional ecological information:**
- . **General notes:**
  - Do not allow product to reach ground water, water course or sewage system, even in small quantities.
  - Must not reach sewage water or drainage ditch undiluted or unneutralised.
  - Also poisonous for fish and plankton in water bodies.
  - Very toxic for aquatic organisms
- . **12.5 Results of PBT and vPvB assessment**
- . **PBT:** Not applicable.
- . **vPvB:** Not applicable.
- . **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

- . **13.1 Waste treatment methods**
- . **Recommendation**
  - Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- . **Uncleaned packaging:**
- . **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

- . **14.1 UN-Number**
- . **ADR, IMDG, IATA** UN3082
- . **14.2 UN proper shipping name**
- . **ADR** 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE,  
LIQUID, N.O.S. (DIPENTENE)
- . **IMDG** ENVIRONMENTALLY HAZARDOUS SUBSTANCE,  
LIQUID, N.O.S. (DIPENTENE, Nerolidol), MARINE  
POLLUTANT
- . **IATA** Environmentally hazardous substance, liquid, n.o.s.  
(Dipentene)
- . **14.3 Transport hazard class(es)**
- . **ADR**
- 
- . **Class** 9 (M6) Miscellaneous dangerous substances and articles.
- . **Label** 9
- . **IMDG, IATA**
- 
- . **Class** 9 Miscellaneous dangerous substances and articles.
- . **Label** 9

(Contd. on page 8)

GB

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 17.03.2016

Revision: 17.03.2016

Trade name: **NEROLI OIL PURE**

(Contd. of page 7)

. 14.4 Packing group	III
. ADR, IMDG, IATA	
. 14.5 Environmental hazards:	Product contains environmentally hazardous substances: d-limonene, Nerolidol
. Marine pollutant:	Yes
	Symbol (fish and tree)
. Special marking (ADR):	Symbol (fish and tree)
. Special marking (IATA):	Symbol (fish and tree)
. 14.6 Special precautions for user	Warning: Miscellaneous dangerous substances and articles.
. Danger code (Kemler):	90
. EMS Number:	F-A,S-F
. Stowage Category	A
. 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
. Transport/Additional information:	
-----	
. ADR	
. Limited quantities (LQ)	5L
. Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
. Transport category	3
. Tunnel restriction code	E
-----	
. IMDG	
. Limited quantities (LQ)	5L
. Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
. UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DIPENTENE), 9, III

**SECTION 15: Regulatory information**

- . 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- . Directive 2012/18/EU
  - . Named dangerous substances - ANNEX I Substance is not listed.
  - . Seveso category E1 Hazardous to the Aquatic Environment
  - . Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t
  - . Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
- . 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

- . Relevant phrases
- H226 Flammable liquid and vapour.
  - H304 May be fatal if swallowed and enters airways.

(Contd. on page 9)

GB



**Safety data sheet**  
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**Trade name: NEROLI OIL PURE**

(Contd. of page 8)

*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.*  
*H412 Harmful to aquatic life with long lasting effects.*

**. Department issuing MSDS: Department Essentials Oils**

**. 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)*  
*IMDG: International Maritime Code for Dangerous Goods*  
*IATA: International Air Transport Association*  
*GHS: Globally Harmonised System of Classification and Labelling of Chemicals*  
*EINECS: European Inventory of Existing Commercial Chemical Substances*  
*ELINCS: European List of Notified Chemical Substances*  
*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*  
*Flam. Liq. 3: Flammable liquids, Hazard Category 3*  
*Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2*  
*Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1*  
*Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2*  
*Skin Sens. 1: Sensitisation - Skin, Hazard Category 1*  
*Skin Sens. 1B: Sensitisation - Skin, Hazard Category 1B*  
*Asp. Tox. 1: Aspiration hazard, Hazard Category 1*  
*Aquatic Acute 1: Hazardous to the aquatic environment - Acute Hazard, Category 1*  
*Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1*  
*Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3*

**. Sources Sandy Sage / Technical Manager**

**. \* Data compared to the previous version altered.**

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