

# SAFETY DATA SHEET

In accordance with REACH Regulation EC No.1907/2006

Product: Neroli EO (Multi-Origin)

Version: 3

#### Section 1. Identification of the substance or the mixture and of the supplier

**1.1 Product Identifier** 

Product identifier:Orange flower oil, bitter (Neroli and Neroli bigarade); CAS: 72968-50-4Other identifiers:Citrus aurantium dulcis (Orange) flower oil

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

Product uses: Fragrances

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

Company name:	Perfumer's Apprentice
Company address:	170 Technology Circle Scotts Valley CA 95066 USA
Contact:	Elisabeth Hanson
E-Mail address:	regulatory@perfumersapprentice.com
Company phone:	(831)316-7137
1.4 Emergency telepho	one number
Emergency phone:	ChemTel:1(800)255-3924, 01(813)248-0585 MIS6760377

#### Section 2. Hazards identification

## 2.1 Classification of the substance or mixture

#### Classification under Regulation (EC) No 1272/2008

Class and category of danger:	Eye Damage / Irritation Category 1 Sensitization - Skin Category 1 Aspiration Hazard Category 1 Hazardous to the Aquatic Environment - Long-term Hazard Category 2 H304, May be fatal if swallowed and enters airways. H315, Causes skin irritation. H317, May cause an allergic skin reaction.
2.2 Label elements	H318, Causes serious eye damage. H411, Toxic to aquatic life with long lasting effects.
2.2 Laber elements	Classification under Regulation (EC) No 1272/2008
Signal word:	Danger



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Product:	Product: Neroli EO (Multi-Origin)		
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Hazard stater	nents:	<ul> <li>H304, May be fatal if swallowed and enters airways.</li> <li>H315, Causes skin irritation.</li> <li>H317, May cause an allergic skin reaction.</li> <li>H318, Causes serious eye damage.</li> <li>H411, Toxic to aquatic life with long lasting effects.</li> </ul>	
M factor:		None	
Supplementa Information:	I	None	
Precautionary statements:	y	<ul> <li>P261, Avoid breathing vapour or dust.</li> <li>P264, Wash hands and other contacted skin thoroughly after handling.</li> <li>P272, Contaminated work clothing should not be allowed out of the workplace.</li> <li>P273, Avoid release to the environment.</li> <li>P280, Wear protective gloves/eye protection/face protection.</li> <li>P301/310, IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.</li> <li>P302/352, IF ON SKIN: Wash with plenty of soap and water.</li> <li>P305/351/338, IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P310, Immediately call a POISON CENTER or doctor/physician.</li> <li>P331, Do not induce vomiting.</li> <li>P333/313, If skin irritation or rash occurs: Get medical advice/attention.</li> <li>P362, Take off contaminated clothing and wash before reuse.</li> <li>P391, Collect spillage.</li> <li>P405, Store locked up.</li> <li>P501, Dispose of contents/container to approved disposal site, in accordance with local regulations.</li> </ul>	
Pictograms:			
Other hazard	S:	None	
3.1 Substance	es	Section 3. Composition / information on ingredients	
Product ident	tifier:	Orange flower oil, bitter (Neroli and Neroli bigarade); CAS: 72968-50-4	



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#### **Contains:**

Name	CAS	EC	REACH Registration No.	%	Classification for (CLP) 1272/2008
Linalool	78-70-6	201-134-4		38.00%	Skin Irrit. 2-Eye Irrit. 2; H315-H319,-
dl-Limonene (racemic)	138-86-3	205-341-0		13.00%	Flam. Liq. 3-Skin Irrit. 2-Skin Sens. 1B-Asp. Tox 1-Aquatic Acute 1- Aquatic Chronic 1; H226-H304-H315- H317-H410,-
beta-Pinene	127-91-3	204-872-5		12.00%	Flam. Liq. 3-Skin Irrit. 2-Skin Sens. 1B-Asp. Tox 1-Aquatic Acute 1- Aquatic Chronic 1; H226-H304-H315- H317-H410,-
Linalyl acetate	115-95-7	204-116-4		5.00%	Skin Irrit. 2-Eye Irrit. 2; H315-H319,-
alpha-Terpineol	98-55-5	202-680-6		4.00%	Skin Irrit. 2-Eye Irrit. 2; H315-H319,-
Geranyl acetate	105-87-3	203-341-5		3.50%	Skin Irrit. 2-Skin Sens. 1B-Aquatic Chronic 3; H315-H317-H412,-
Geraniol	106-24-1	203-377-1		3.00%	Skin Irrit. 2-Eye Dam. 1-Skin Sens. 1;H315- H317-H318,-
Nerolidol (isomer unspecified)	7212-44-4	230-597-5		2.60%	Eye Irrit. 2-Aquatic Acute 1-Aquatic Chronic 1;H319-H410,-
Myrcene	123-35-3	204-622-5		1.70%	Flam. Liq. 3-Skin Irrit. 2-Eye Irrit. 2-Asp. Tox 1;H226-H304-H315- H319
Farnesol	4602-84-0	225-004-1		1.50%	Skin Irrit. 2-Eye Irrit. 2- Skin Sens. 1B;H315- H317-H319,-
alpha-Pinene	80-56-8	201-291-9		1.20%	Flam. Liq. 3-Skin Irrit. 2-Skin Sens. 1B-Asp. Tox 1-Aquatic Acute 1- Aquatic Chronic 1; H226-H304-H315- H317-H410,-
p-Mentha-1,4-diene	99-85-4	202-794-6		1.00%	Flam. Liq. 3-Asp. Tox 1; H226-H304,-
Terpinolene	586-62-9	209-578-0		0.40%	Skin Sens. 1B-Asp. Tox 1-Aquatic Acute 1- Aquatic Chronic 1; H304-H317-H410,-

#### Section 4. First-aid measures

#### 4.1 Description of first aid measures

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

IF ON SKIN: Wash with plenty of soap and water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER or doctor/physician.



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

May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage.

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

None expected, see Section 4.1 for further information.

#### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable media: Carbon dioxide, Dry chemical, Foam.

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

In case of fire, may be liberated: Carbon monoxide, Unidentified organic compounds.

#### 5.3 Advice for fire fighters:

In case of insufficient ventilation, wear suitable respiratory equipment.

#### Section 6. Accidental release measures

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

Avoid inhalation. Avoid contact with skin and eyes. See protective measures under Section 7 and 8.

#### 6.2 Environmental precautions:

Keep away from drains, surface and ground water, and soil.

## 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.

## 6.4 Reference to other sections:

Also refer to sections 8 and 13.

## Section 7. Handling and storage

## 7.1 Precautions for safe handling:

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.



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#### 7.2 Conditions for safe storage, including any incompatibilities:

Store in a well-ventilated place. Keep container tightly closed. Keep cool. Ground/bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

#### 7.3 Specific end use(s):

Fragrances: Use in accordance with good manufacturing and industrial hygiene practices.

#### Section 8. Exposure controls/personal protection

#### 8.1 Control parameters

Workplace exposure limits: Not Applicable

#### 8.2 Exposure Controls

#### Eye / Skin Protection

Wear protective gloves/eye protection/face protection

#### **Respiratory 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.

#### Section 9. Physical and chemical properties

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

A	Not determined
Appearance:	Not determined
Odour:	Not determined
Odour threshold:	Not determined
pH:	Not determined
Melting point / freezing point:	Not determined
Initial boiling point / range:	Not determined
Flash point:	61 °C
Evaporation rate:	Not determined
Flammability (solid, gas):	Not determined
Upper/lower flammability or explosive limits:	Product does not present an explosion hazard
Vapour pressure:	Not determined
Vapour density:	Not determined
Relative density:	Not determined
Solubility(ies):	Not determined



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Partition coeff	icient: n-octanol/water:	Not determined
Auto-ignition	temperature:	Not determined
Decompositio	n temperature:	Not determined
Viscosity:		Not determined
Explosive pro	perties:	Not expected
Oxidising pro	perties:	Not expected

9.2 Other information: None available

#### Section 10. Stability and reactivity

#### 10.1 Reactivity:

Presents no significant reactivity hazard, by itself or in contact with water.

#### 10.2 Chemical stability:

Good stability under normal storage conditions.

#### 10.3 Possibility of hazardous reactions:

Not expected under normal conditions of use.

#### **10.4 Conditions to avoid:**

Avoid extreme heat.

#### 10.5 Incompatible materials:

Avoid contact with strong acids, alkalis or oxidising agents.

#### 10.6 Hazardous decomposition products:

Not expected.

#### Section 11. Toxicological information

#### 11.1 Information on toxicological effects

Acute Toxicity:	Based on available data the classification criteria are not met.
Acute Toxicity Oral	4550
Acute Toxicity Dermal	Not Applicable
Acute Toxicity Inhalation	Not Available
Skin corrosion/irritation:	Skin Corrosion / Irritation Category 2
Serious eye damage/irritation:	Eye Damage / Irritation Category 1
Respiratory or skin sensitisation:	Sensitization - Skin Category 1
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:	Aspiration Hazard Category 1



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### Information about hazardous ingredients in the mixture

Not Applicable

Refer to Sections 2 and 3 for additional information.

## Section 12. Ecological information

#### 12.1 Toxicity:

Toxic to aquatic life with long lasting effects. **12.2 Persistence and degradability:** Not available

12.3 Bioaccumulative potential: Not available

12.4 Mobility in soil:

Not available

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: Not available

#### Section 13. Disposal considerations

#### 13.1 Waste treatment methods:

Dispose of in accordance with local regulations. Avoid disposing into drainage systems and into the environment. Empty containers should be taken to an approved waste handling site for recycling or disposal.

#### Section 14. Transport information

14.1 UN number:	UN3082
14.2 UN Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (dl- Limonene (racemic), beta-Pinene)
14.3 Transport hazard class(es):	9
Sub Risk:	-
14.4. Packing Group:	III
14.5 Environmental hazards:	This is an environmentally hazardous substance.
14.6 Special precautions for user:	None additional
14.7 Transport in bulk according to Ann	ex II of MARPOL73/78 and the IBC Code:
NI ( Company Revented as	

Not applicable

## Section 15. Regulatory information

# **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**RIFM ID Number:233-F2.12

#### **15.2 Chemical Safety Assessment**

A Chemical Safety Assessment has not been carried out for this product.

#### Section 16. Other information



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Product:	Neroli EO (Multi-Origin)	
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Concentratio	n % Limits:	EH A1=85.62% EH C1=85.62% EH C2=8.56% EH C3=0.85513939% EH C4=76.45% SCI 2=12.06% EDI 1=100.00% EDI 2=12.08% SS 1=7.69% AH 1=25.00%
Total Fraction	nal Values:	EH A1=1.17 EH C1=1.17 EH C2=11.68 EH C3=116.94 EH C4=1.31 SCI 2=8.29 EDI 1=1.00 EDI 2=8.28 SS 1=13.00 AH 1=4.00
Key to revisio	ons:	

Classification under Regulation (EC) No 1272/2008

## Key to abbreviations:

Abbreviation	Meaning
Aquatic Acute 1	Hazardous to the Aquatic Environment - Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the Aquatic Environment - Long-term Hazard Category 1
Aquatic Chronic 3	Hazardous to the Aquatic Environment - Long-term Hazard Category 3
Asp. Tox 1	Aspiration Hazard Category 1
Eye Dam. 1	Eye Damage / Irritation Category 1
Eye Irrit. 2	Eye Damage / Irritation Category 2
Flam. Liq. 3	Flammable Liquid, Hazard Category 3
H226	Flammable liquid and vapour.
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.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
P210	Keep away from heat, sparks, open flames and hot surfaces No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical, ventilating and lighting equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing vapour or dust.
P264	Wash hands and other contacted skin thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/eye protection/face protection.
P301/310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P302/352	IF ON SKIN: Wash with plenty of soap and water.
P303/361/353	IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
P305/351/338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician.



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P331	Do not induce vomiting.	
P332/313	If skin irritation occurs: Get medical advice/attention.	
P333/313	If skin irritation or rash occurs: Get medical advice/attention.	
P337/313	If eye irritation persists: Get medical advice/attention.	
P362	Take off contaminated clothing and wash before reuse.	
P363	Wash contaminated clothing before reuse.	
P370/378	In case of fire: Use carbon dioxide, dry chemical, foam for extinction.	
P391	Collect spillage.	
P403/235	Store in a well-ventilated place. Keep cool.	
P405	Store locked up.	
P501	Dispose of contents/container to approved disposal site, in accordance with local regulations.	
Skin Irrit. 2	Skin Corrosion / Irritation Category 2	
Skin Sens. 1	Sensitization - Skin Category 1	
Skin Sens. 1B	Sensitization - Skin Category 1B	

The information in this safety data sheet is to the best of our knowledge true and accurate but all data, instructions, recommendations and/or suggestions are made without guarantee.