

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 7/22/2019 Version: 1.0

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

#### 1.1. Product identifier

Product form : Substance
Substance name : Neroli Oil

Chemical name : Citrus Aurantium Amara Flower Oil

EC Index-No. : - / 277-143-2 EC-No. : - / 277-143-2

CAS-No. : 68916-04-1 / 72968-50-4

Product code : 123

Other means of identification : A natural blend of the volatile oil obtained by steam distillation of the fragrant white

blossoms of the bitter orange tree Citrus aurantium L. subsp. amara Engl.

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

#### 1.2.1. Relevant identified uses

Use of the substance/mixture : Suitable for cosmetic, fragrance and professional applications only

### 1.2.2. Uses advised against

No additional information available

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

Naissance

Unit 9 & 11 Milland Road Industrial Estate

Milland Road

SA11 1NJ Neath - United Kingdom

www.discoveringbetter.com

# 1.4. Emergency telephone number

No additional information available

#### **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

## Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation, Category 2
H315
Serious eye damage/eye irritation, Category 1
H318
Skin sensitisation, Category 1
H317
Aspiration hazard, Category 1
H304
Hazardous to the aquatic environment — Acute Hazard, Category 1
H400
Hazardous to the aquatic environment — Chronic Hazard, Category 1
H410

Full text of H statements : see section 16

## Adverse physicochemical, human health and environmental effects

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May be fatal if swallowed and enters airways. Toxic to aquatic life with long lasting effects.

### 2.2. Label elements

### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



Signal word (CLP) : Danger

Hazard statements (CLP) : 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.

H410 - Very toxic to aquatic life with long lasting effects.

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Precautionary statements (CLP) : P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 - Wash hands, forearms and face thoroughly after handling.

P272 - Contaminated work clothing should not be allowed out of the workplace.

P273 - Avoid release to the environment.

P280 - Wear gloves/protective clothing/eye protection/face protection.

P302+P352 - IF ON SKIN: Wash with plenty of gloves/protective clothing/eye

protection/face protection.

. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P331 - Do NOT induce vomiting.

P332+P313 - If skin irritation occurs: Get medical advice/attention.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.

P391 - Collect spillage. P405 - Store locked up.

P501 - Dispose of approved waste disposal to facility.

#### 2.3. Other hazards

No additional information available

# **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Name : Neroli Oil

CAS-No. : 68916-04-1 / 72968-50-4

EC-No. : - / 277-143-2 EC Index-No. : - / 277-143-2

Name	Product identifier	%
Linalool	(CAS-No.) 78-70-6 (EC-No.) 201-134-4	< 39.6
Linalyl acetate	(CAS-No.) 115-95-7 (EC-No.) 204-116-4	5 - 15
Limonene	(CAS-No.) 5989-27-5 (EC-No.) 227-813-5	<= 13.9
Beta-Pinene	(CAS-No.) 127-91-3 (EC-No.) 204-872-5	2.5 - 10
alpha-Terpineol acetate	(CAS-No.) 80-26-2 (EC-No.) 201-265-7	2.5 - 10
Nerol	(CAS-No.) 106-25-2 (EC-No.) 230-597-5	2.5 - 10
Geraniol	(CAS-No.) 106-24-1 (EC-No.) 203-377-1	< 6.3
Alpha-Pinene	(CAS-No.) 80-56-8 / 7785-26-4 (EC-No.) 201-291-9	1-5
Geranil acetate	(CAS-No.) 105-87-3 (EC-No.) 203-341-5	2.5 - 5
Nerolidol	(CAS-No.) 7212-44-4 (EC-No.) 230-597-5	2.5 - 5
Terpineol	(CAS-No.) 8000-41-7 (EC-No.) 232-268-1	2.5 - 5
Farnesol	(CAS-No.) 4602-84-0 (EC-No.) 225-004-1	< 3.5
dl-Citronellol	(CAS-No.) 106-22-9 (EC-No.) 203-375-0	< 2

Full text of H-statements: see section 16

# 3.2. Mixtures

Not applicable

#### **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention.

First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.

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First-aid measures after eve contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. Call a physician immediately.

First-aid measures after ingestion : Do not induce vomiting. Rinse mouth. Get medical advice/attention.

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

Symptoms/effects after skin contact : Irritation. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Serious damage to eyes. Symptoms/effects after ingestion : Risk of lung oedema.

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

Treat symptomatically.

## **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

Suitable extinguishing media : Dry powder. Foam. Carbon dioxide. Unsuitable extinguishing media : Do not use a heavy water stream.

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

Hazardous decomposition products in case of fire : Carbon monoxide. Carbon dioxide.

#### 5.3. Advice for firefighters

Precautionary measures fire : Evacuate area. Eliminate all ignition sources if safe to do so. Stop leak if safe to do so.

Firefighting instructions : Cool laterally with water containers exposed to flames, even after the fire is extinguished.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

#### SECTION 6: Accidental release measures

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

General measures : Evacuate area. Stop leak if safe to do so. Remove ignition sources.

### 6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Avoid release to the environment. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.

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

Methods for cleaning up : Clean up any spills as soon as possible, using an absorbent material to collect it. On land,

sweep or shovel into suitable containers. Store away from other materials.

Other information : Dispose of materials or solid residues at an authorized site.

## 6.4. Reference to other sections

For further information refer to section 13.

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

### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear

personal protective equipment.

Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be

allowed out of the workplace. Do not eat, drink or smoke when using this product. Always

wash hands after handling the product.

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

Storage conditions : Store locked up. Store in a well-ventilated place. Keep cool.

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

No additional information available

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

### 8.1. Control parameters

Beta-Pinene (127-91-3)

#### **USA - ACGIH - Occupational Exposure Limits**

ACGIH TWA (ppm) 20 ppm

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Alpha-Pinene (80-56-8 / 7785-26-4)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH TWA (ppm)	20 ppm

#### 8.2. Exposure controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

#### Personal protective equipment:

EN 374. EN 166. EN 14605. EN 13034.

Hand protection:	
Protective gloves	
Eye protection:	
Safety glasses	
Skin and body protection:	
Wear suitable protective clothing	
Respiratory protection:	
In case of insufficient ventilation, wear suitable respiratory equipment	

### Personal protective equipment symbol(s):







#### Environmental exposure controls:

Avoid release to the environment.

#### Other information:

Do not eat, drink or smoke when using this product.

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

9.1. Information on basic physical and	chemical properties
Physical state	: Liquid
Colour	: Yellow.
Odour	: characteristic.
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available

Flash point : > 61 °C

Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : Not applicable
Vapour pressure : No data available
Relative vapour density at 20 °C : No data available

Relative density :  $\approx 0.872$ 

Solubility : Water: Insoluble in water

Log Pow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : No data available

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#### 9.2. Other information

Refractive index : ≈ 1.471

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

# 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

Oxidizing agent. Strong acids. Strong bases.

#### 10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide.

### SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

### Neroli Oil (68916-04-1 / 72968-50-4)

LD50 oral rat ≈ 3550

# Linalool (78-70-6)

ination (10-10-0)	
LD50 oral rat	3000 mg/kg
LD50 oral	2790 mg/kg
LD50 dermal rabbit	5610 mg/kg
LC50 inhalation rat (mg/l)	> 20 mg/l/4h

### Geranil acetate (105-87-3)

LD50 oral rat ≈ 6330 mg/kg

### **Geraniol (106-24-1)**

LD50 oral rat	≈ 3600 ml/kg
LD50 dermal rabbit	> 5 g/kg

### Beta-Pinene (127-91-3)

LD50 dermal rat ≈ 4700 mg/kg

# Alpha-Pinene (80-56-8 / 7785-26-4)

LD50 oral rat 3700 mg/kg

## Limonene (5989-27-5)

LD50 oral rat	4400 mg/kg
LD50 dermal	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 20 mg/l

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Causes serious eye damage.

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

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Reproductive toxicity : Not classified STOT-single exposure : Not classified STOT-repeated exposure : Not classified

Aspiration hazard : May be fatal if swallowed and enters airways.

SECTION	N 12: Ecol	ogical in	formation
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12.1. Toxicity

Ecology - general : Toxic to aquatic life with long lasting effects.

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

Linalool	(78-70-6)
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Emalosi (10 70 0)	
LC50 fish 1	27.8 mg/l
EC50 Daphnia 1	59 mg/l
EC50 96h algae (1)	88.3 mg/l

## Limonene (5989-27-5)

LC50 fish 1	≈ 33 mg/l
EC50 Daphnia 1	0.1 - 1 mg/l
ErC50 (algae)	0.1 - 1 mg/l

### 12.2. Persistence and degradability

#### Linalool (78-70-6)

Persistence and degradability Not established

### Nerolidol (7212-44-4)

Persistence and degradability Not established. May cause long-term adverse effects in the environment.

### Farnesol (4602-84-0)

Persistence and degradability Not established.

# Nerol (106-25-2)

Persistence and degradability Not established.

#### Geranil acetate (105-87-3)

Persistence and degradability Not established. May cause long-term adverse effects in the environment.

# Linalyl acetate (115-95-7)

Persistence and degradability Not established.

#### **Geraniol (106-24-1)**

Persistence and degradability Not established.

# Beta-Pinene (127-91-3)

Persistence and degradability

Not established. May cause long-term adverse effects in the environment.

## Alpha-Pinene (80-56-8 / 7785-26-4)

Persistence and degradability Not established. May cause long-term adverse effects in the environment.

## dl-Citronellol (106-22-9)

Persistence and degradability Not established.

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Limonene (5989-27-5)	
Persistence and degradability	Not established. May cause long-term adverse effects in the environment.
12.3. Bioaccumulative potential	
Linalool (78-70-6)	
Log Pow	2.84 - 3.1
Bioaccumulative potential	Not established.

Nerolidol (	(7212-44-4)
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Bioaccumulative potential Not established.

# Farnesol (4602-84-0)

Bioaccumulative potential Not established.

#### Nerol (106-25-2)

Bioaccumulative potential Not established.

# Geranil acetate (105-87-3)

Bioaccumulative potential Not established.

### Linalyl acetate (115-95-7)

Bioaccumulative potential Not established.

### **Geraniol (106-24-1)**

Bioaccumulative potential Not established.

### Beta-Pinene (127-91-3)

Bioaccumulative potential Not established.

# Alpha-Pinene (80-56-8 / 7785-26-4)

Bioaccumulative potential Not established

# dl-Citronellol (106-22-9)

Bioaccumulative potential Not established.

### Limonene (5989-27-5)

Bioaccumulative potential Not established

### 12.4. Mobility in soil

No additional information available

# 12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions. Must follow special treatment according to local regulation.

#### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

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ADR	IMDG	IATA	ADN	RID	
14.1. UN number					
UN 3082	UN 3082	UN 3082	UN 3082	UN 3082	
14.2. UN proper shippin	14.2. UN proper shipping name				
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	Environmentally hazardous substance, liquid, n.o.s.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	
Transport document description					
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III, (-)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III, MARINE POLLUTANT	UN 3082 Environmentally hazardous substance, liquid, n.o.s., 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III	
14.3. Transport hazard class(es)					
9	9	9	9	9	
14.4. Packing group					
III	III	III	III	III	
14.5. Environmental hazards					
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes	
No supplementary information	on available				

# 14.6. Special precautions for user

# Overland transport

Classification code (ADR) : M6

Special provisions (ADR) : 274, 335, 375, 601

Limited quantities (ADR) : 5I Excepted quantities (ADR) : E1

Packing instructions (ADR) : P001, IBC03, LP01, R001

Special packing provisions (ADR) : PP1
Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions : T4
(ADR)

Portable tank and bulk container special provisions

(ADR)

: TP1, TP29

Tank code (ADR) : LGBV
Vehicle for tank carriage : AT
Transport category (ADR) : 3
Special provisions for carriage - Packages (ADR) : V12
Special provisions for carriage - Loading, : CV13

unloading and handling (ADR)

Hazard identification number (Kemler No.) : 90

Orange plates :



Tunnel restriction code (ADR) : -EAC code : •3Z

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Transport by sea

Special provisions (IMDG) : 274, 335, 969

Limited quantities (IMDG) : 5 L
Excepted quantities (IMDG) : E1

Packing instructions (IMDG) : LP01, P001
Special packing provisions (IMDG) : PP1
IBC packing instructions (IMDG) : IBC03
Tank instructions (IMDG) : T4
Tank special provisions (IMDG) : TP2, TP29
EmS-No. (Fire) : F-A

EmS-No. (Spillage) : S-F Stowage category (IMDG) : A

Air transport

PCA Excepted quantities (IATA) : E1

PCA Limited quantities (IATA) : Y964

PCA limited quantity max net quantity (IATA) : 30kgG

PCA packing instructions (IATA) : 964

PCA max net quantity (IATA) : 450L

CAO packing instructions (IATA) : 964

CAO max net quantity (IATA) : 450L

Special provisions (IATA) : A97, A158, A197

ERG code (IATA) : 9L

Inland waterway transport

Classification code (ADN) : M6

Special provisions (ADN) : 274, 335, 375, 601

Limited quantities (ADN) : 5 L

Excepted quantities (ADN) : E1

Carriage permitted (ADN) : T

Equipment required (ADN) : PP

Number of blue cones/lights (ADN) : 0

Rail transport

Classification code (RID) : M6

Special provisions (RID) : 274, 335, 375, 601

Excepted quantities (RID) : E1

Packing instructions (RID) : P001, IBC03, LP01, R001

Special packing provisions (RID) : PP1
Mixed packing provisions (RID) : MP19
Portable tank and bulk container instructions (RID) : T4
Portable tank and bulk container special provisions : TP1, TP29

Portable tank and bulk container special provisions (RID)

Tank codes for RID tanks (RID) : LGBV

Transport category (RID) : 3
Special provisions for carriage – Packages (RID) : W12

Special provisions for carriage - Loading, unloading and handling (RID)

nandling (RID)

Colis express (express parcels) (RID) : CE8
Hazard identification number (RID) : 90

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

# **SECTION 15: Regulatory information**

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

: CW13, CW31

#### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Neroli Oil is not on the REACH Candidate List

Neroli Oil is not on the REACH Annex XIV List

Neroli Oil is not subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

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Neroli Oil is not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC

### 15.1.2. National regulations

No additional information available

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

# **SECTION 16: Other information**

Full text of H- and EUH-statements:			
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 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2		
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3		
Asp. Tox. 1	Aspiration hazard, Category 1		
Eye Dam. 1	Serious eye damage/eye irritation, Category 1		
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2		
Flam. Liq. 3	Flammable liquids, Category 3		
Skin Irrit. 2	Skin corrosion/irritation, Category 2		
Skin Sens. 1	Skin sensitisation, Category 1		
Skin Sens. 1B	Skin sensitisation, category 1B		
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.		
H400	Very toxic to aquatic life.		
H410	Very toxic to aquatic life with long lasting effects.		
H411	Toxic to aquatic life with long lasting effects.		
H412	Harmful to aquatic life with long lasting effects.		

#### SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.