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## MATERIAL SAFETY DATA SHEET

### 01. IDENTIFICATION OF THE SUBSTANCE/PREPARATION & THE COMPANY/UNDERTAKING

1.1 Product Identifier					
Product Name		Neroli Oil Light.			
Biological Definition		Obtained from the steam distillation of the flowers of the bitter orange tree, <i>Citrus aurantium</i> L. var. <i>amara</i> L., <i>Rutaceae</i> and then by formulated blending of the oil with other citrus oils, citrus oil derivatives and fractions and other aromatic ingredients such that the final profile replicates in a general way the profile and odour characteristics of true Neroli Oil (Natural).			
INCI Name		Parfum.			
Synonyms & Trade Names		Neroli Phase Oil.			
CAS-No	68916-04-1	EC No.	277-143-2	EINECS No.	277-143-2
1.2 Relative identified uses of the substance or mixture and uses advised against					
No additional data available.					
1.3 Details of the supplier of the safety data sheet					
1.4 Emergency Tel. No.					

### 02. HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture	
The full text for all Hazard Statements displayed in Section 16.	
Classification (EC 1272/2008)	
Physical and Chemical Hazards: FL4 H227  Human Health Asp.:Tox. 1 – AH1 H304 Skin Irrit 2 – SCI2 H315 Skin Sens 1 – SS1 H317 Environment: Aquatic Chronic 2 – EHC2 H411	
2.2 Label Elements	
Label in accordance with (EC) No 1272/2008	
<div><div>GHS08 </div><div>GHS09 </div><div>GHS07 </div></div>	
Signal Word	Danger
Contains	Linalyl acetate, Linalool, Limonene, Geranyl acetate, Phenyl ethyl alcohol.

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## Hazard Statements

H304 - May be fatal if swallowed and enters airways.  
H315 - Causes skin irritation.  
H317 - May cause an allergic skin reaction.  
H411 - Toxic to aquatic life with long lasting effects.

## Precautionary Statements

P210 - Keep away from heat/sparks/open flames/hot surfaces – no smoking.  
P241 - Use explosion proof electrical/ventilating/lighting/equipment.  
P262 - Do not get in eyes, on skin or on clothing.  
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.  
P303/361/353 If on skin (or hair): remove/take off immediately all contaminated clothing. Rinse skin with water/shower.  
P331 - Do NOT induce vomiting.  
P405 - Store locked up.  
P501 - Dispose of contents/container to ...

## Supplementary Precautionary Statements

None.

## 2.3 Other Hazards

PBT or vPvB according to Annex XIII	No additional data available.
Adverse physio-chemical properties	No additional data available.
Adverse effects on human health	No additional data available.

## 03. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

#### 20-30% Linalyl Acetate

CAS-No.: 115-95-7 EC No.: 204-116-4  
Classification: FL4  
SCI3  
EHA2

#### 11-21% Linalool

CAS-No.: 78-70-6 EC No.: 201-134-4  
Classification: FL4  
SCI2  
AT05  
EHA3

#### 9-19% Limonene

CAS-No.: 5989-27-5 EC No.: 227-813-5  
Classification: AH1  
EHC1  
FL3  
SCI2  
SS1

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<b>6-10% Geranyl Acetate</b> <b>CAS-No.:</b> 105-87-3 <b>EC No.:</b> 203-341-5 <b>Classification:</b> EHC2 SCI3 EHA2
<b>2-7% Phenyl Ethyl Alcohol</b> <b>CAS-No.:</b> 60-12-8 <b>EC No.:</b> 200-456-2 <b>Classification:</b> ATO5 EDI2A
<b>1.5 – 3.5% Citronellol</b> <b>CAS-No.:</b> 106-22-9 <b>EC No.:</b> 203-375-0 <b>Classification:</b> SCI2 SS1 ATD5 ATO5 EHA2
<b>1-3% Geraniol</b> <b>CAS-No.:</b> 106-24-1 <b>EC No.:</b> 203-377-1 <b>Classification:</b> SCI2 SS1 ATO5 EDI1 EHA2

## 04. FIRST AID MEASURES

4.1 Description of first aid measures	
Inhalation	Remove to fresh air for at least 15 minutes, in case of complaints seek medical attention.
Ingestion	DO NOT INDUCE VOMITING! Immediately rinse mouth and provide fresh air. Get medical attention immediately.
Skin Contact	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.
Eye Contact	Immediately flush with plenty of pure water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention immediately. Continue to rinse.
4.2 Most important symptoms and effects, both acute and delayed	
Inhalation: Can cause slight headache. Skin contact: Can cause slight skin rash. Eye contact: Can cause bloodshot eyes.	
4.3 Indication of any immediate medical attention and special treatment needed	
Immediate medical assistance: See point 4.1. Immediate/ special treatment: See point 4.1. First aid specific means: Eye wash fountain/safety shower should be available in the work area.	

## 05. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media
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Extinguishing media: Small fire use: Carbon dioxide (CO<sub>2</sub>). Foam, dry Powder. Large fire: Use water spray or fog – cool containing vessels with water jet in order to prevent pressure build up, auto-ignition or explosion.

Unsuitable extinguishing media: Pressurised water jet.

## 5.2 Special hazards arising from the product

Vapours may form explosive mixture with air – in case of fire, the following can be released: carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>), smoke, soot.

## 5.3 Advice for firefighters

Special Fire Fighting Procedures Avoid inhalation of generated fumes or vapours. Use appropriate respiratory equipment. Do not allow spillage into drains or waterways.

Protective equipment for fire-fighters Wear full protective clothing.

## 06. ACCIDENTAL RELEASE MEASURES

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

For non-emergency personnel: In an emergency (i.e. unintentional important release of the product in enclosed space) respiratory protection (Gas filter A, colour code brown: consider the maximum duration of wear) must be worn. Use insulating device for respiratory protection with an independent air supply in circumstances which are unclear – use adequate protection, solvent resistant: security shoes, bodysuit, gloves and protective goggles (see point 8).

For emergency responders: As per non-emergency personnel.

Emergency procedures: Remove any ignition source and ensure adequate ventilation in working areas following accidental release.

### 6.2 Environmental Precautions

Do not discharge into drains. Keep away from surface and ground water.

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

Keep away from heat and use non-combustible absorbing sawdust (sand, specific binder). Refer to point 13 for the appropriate method of waste treatment.

### 6.4 Reference to other sections

See point 4, 8 and 13.

## 07. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Safe handling: During handling keep original container closed. Avoid contact with skin and eyes. Wear adequate protective gloves and eye/face protection. Avoid any sources of ignition. Avoid exposing to high temperature during processing. Maintain adequate local and general ventilation where product is handled.

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Hygiene at work: Do not ingest or apply to the skin as such. No smoking. Remove contaminated clothing. Good personal washing routines should be followed. If at risk of contamination, foods, beverages and other articles of consumption must not be stored or consumed at the work areas.

## 7.2 Conditions for safe storage, including any incompatibilities

Container: To be stored in stainless steel drums, preferably under inert atmosphere (nitrogen) with minimum head space, protect from day light. **Take note:** The container used during transportation must be considered only as a temporary container and it must not be considered in any case adequate for medium- or long-term warehousing.

Conditions: Store in a dry. Aerated place, away from any heat source and ignition source.

Temperature: From 5°C to 20°C

## 7.3 Specific end use(s)

Use as odour agent – the information of this section is not related to the use of the product in combination with any other material or any other process altering its characteristic.

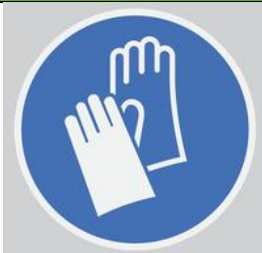
## 08. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

Occupational exposure limit : Not determined.

### 8.2 Exposure controls

#### Protective Equipment



Process Conditions	No additional data available.
Engineering Measures	No additional data available.
Respiratory Equipment	Not necessary in adequate local with general ventilation – avoid breathing vapours.
Hand Protection	Suitable gloves tested to EN374 (should be checked regularly) – always use with clean, dry hands.
Eye Protection	Protective goggles with built in frame tested to EN166 (should be checked regularly).
Other Protection	Wear appropriate clothing to prevent any possibility of skin contact.
Hygiene Measures	Good personal hygiene practices are always advisable, especially when working with chemicals / oils.
Personal Protection	Use personal protection according to Directive 89/686/EEC.
Skin Protection	Protective work clothing solvent resistant (should be checked regularly).
Environmental Exposure Controls	Avoid discharging into drainage water. Only remove via authorised companies.

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## 09. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties	
Appearance	Clear liquid.
Colour	Pale yellow.
Odour	Characteristic – strong neroli note.
Relative Density	Approx. 0.919 @ 20°C
Flash Point (°C)	Approx. 71°C
Refractive Index	Approx. 1.476 @ 20°C
Melting Point (°C)	No additional data available.
Boiling Point (°C)	No additional data available.
Vapour Pressure	No additional data available.
Solubility in Water @20°C	Insoluble in water.
Auto-ignition temperature (°C)	No additional data available.
9.2 Other information	
No additional data available.	

## 10. STABILITY AND REACTIVITY

10.1 Reactivity	
Product not reactive with water – product not reactive if used according to storage and handling conditions and identified uses (see subsection 1.2).	
10.2 Chemical stability	
Product stable if used according to storage and handling conditions and identified uses (see subsection 1.2). <b>Shelf Life:</b> 365 days, as per recommended storage and handling conditions (see point 7).	
10.3 Possible hazardous reactions	
None if used according to storage and handling conditions and identified uses (see subsection 1.2).	
10.4 Conditions to Avoid	
Avoid exposure to heat.	
10.5 Incompatible materials	
Highly oxidising agents.	
10.6 Hazardous Decomposition Products	
Carbon monoxide, carbon dioxide and unidentified organic compounds may be formed during combustion.	

## 11. TOXOLOGICAL INFORMATION

11.1 Information on toxicological effects	
Acute Toxicity	This preparation has not been subject to ecotoxicological testing as an entity but has been blended from materials with known ecotoxicological data and hazard classification (RIFM). In view of the difficulty of using current standard ecotoxicological evaluation techniques to predict potential hazards arising from unforeseen potentiation, this preparation

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	should be considered and handled as if it displayed health hazards and treated in consequence with all possible precaution.
Skin corrosion / irritation	Hazard statement: H315 Causes skin irritation.
Serious eye damage / irritation	No additional data available.
Respiratory or skin sensitisation	Hazard statement: H317 May cause an allergic skin reaction.
Germ Cell Mutagenicity	No additional data available.
Carcinogenicity	No additional data available.
Reproductive toxicity	No additional data available.
STOT-single exposure	No additional data available.
STOT-repeated exposure	No additional data available.
Aspiration hazard	Hazard statement: H304 May be fatal if swallowed and enters airways.
Photo-toxicity	No additional data available.
Other Information	No additional data available.

### 12. ECOLOGICAL INFORMATION

<b>12.1 Toxicity</b>
<p>This preparation has not been subject to ecotoxicological testing as an entity but has been blended from materials with known ecotoxicological data and hazard classification (RIFM). In view of the difficulty of using current standard ecotoxicological evaluation techniques to predict the impact on vulnerable parts of the ecosystem, this preparation should be considered and handled as if it displayed potential environmental hazards and treated in consequence with all possible precaution.</p> <p>Aquatic life: Hazard statement: H411 Toxic to aquatic life with long lasting effects.</p>
<b>12.2 Persistence &amp; degradability</b>
Degradability: No data available.
<b>12.3 Bioaccumulation Potential</b>
Hazard statement: H411 Toxic to aquatic life with long lasting effects
<b>12.4 Mobility in soil</b>
No additional data available.
<b>12.5 Results of PBT and vPvB Assessment</b>
This product (or all its ingredients) not classified as PBT or vPvB / CMR.
<b>12.6 Other adverse effects</b>
No additional data available.

### 13. DISPOSAL CONSIDERATIONS

<b>13.1 Waste treatment methods</b>
<p>The containers used for this product must be completely empty before disposal. Dispose product and /or contaminated packaging in accordance with federal, state and local environmental control regulations – dispose through the waste water is illegal.</p>

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## 14. TRANSPORT INFORMATION

### 14.1 UN number

UN No. Road	3082
UN No. SEA	3082
UN No. AIR	3082

### 14.2 UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID N.O.S.

### 14.3 Transport hazard class(es)

ADR/RID/ADN Class: 9  
 ADR/RID/ADN Class: 9 Miscellaneous dangerous substances and articles.  
 IMDG Class 9  
 ICAO Class/Division 9

Transport Labels



### 14.4 Packing group

ADR/RID/ADN Packing group III  
 IMDG Packing group III  
 ICAO Packing group III

### 14.5 Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant



### 14.6 Special precautions for user

This product contains constituents that are flammable and dangerous for the environment – in case of pouring out, make sure to label new packaging accordingly, reproducing original label with relevant symbols.

### 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code

Tariff Number 330290900  
 NCM (Mercosur) 33029019



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## 15. REGULATORY INFORMATION

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

#### Statutory Instruments

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

#### Guidance Notes

Workplace Exposure Limits EH40. CHIP for everyone HSG (108).

#### EU Legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

### 15.2 Chemical safety assessment

No additional information available.

## 16. OTHER INFORMATION

Hazard and/or Precautionary Statements in Full	<p>H304 - May be fatal if swallowed and enters airways.</p> <p>H315 - Causes skin irritation</p> <p>H317 - May cause an allergic skin reaction.</p> <p>H411 - Toxic to aquatic life with long lasting effects.</p> <p>P210 - Keep away from heat/sparks/open flames/hot surfaces – no smoking.</p> <p>P241 - Use explosion proof electrical/ventilating/lighting/equipment.</p> <p>P262 - Do not get in eyes, on skin or on clothing.</p> <p>P273 - Avoid release to the environment.</p> <p>P280 - Wear protective gloves/eye protection/face protection.</p> <p>P301/310 - IF SWALLOWED - Immediately call a POISON CENTER or doctor/physician.</p> <p>P303/361/353 If on skin (or hair): remove/take off immediately all contaminated clothing. Rinse skin with water/shower.</p> <p>P331 - Do NOT induce vomiting.</p> <p>P405 - Store locked up.</p> <p>P501 - Dispose of contents/container in accordance with applicable regulations.</p>
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**DISCLAIMER:** This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.