

Safety Data Sheet
according to 29 CFR 1910.1200

1746103

 Reviewed on: 19/03/19
 Printing date: 19/03/2019

PRODUCT : NEROLI MOROCCO ORGANIC OIL

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GHS05 GHS08 GHS02 GHS07 GHS09

- Signal word
Danger
- Hazard statements
 H315 Causes skin irritation.
 H318 Causes serious eye damage.
 H304 May be fatal if swallowed and enters airways.
 H226 Flammable liquid and vapor.
 H317 May cause an allergic skin reaction.
 H410 Very toxic to aquatic life with long lasting effects.
- Precautionary statements
 P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
 P233 Keep container tightly closed.
 P240 Ground/bond container and receiving equipment.
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
 P403+P235 Store in a well-ventilated place. Keep cool.
 P501 Dispose of contents/container in accordance with local/regional/ national/international regulations.

03 Composition/information on ingredients

3.1 Chemical characterization: Substances

CAS No.	Description
8016-38-4	Citrus aurantium var. amara L.

- Identification number(s)
- EC Number:
639-655-8

- Dangerous components:

CAS Number		%
* 78-70-6	<i>linalol</i> <i>EC Number: 201-134-4</i>	20,001-50,00
* 5989-27-5	<i>limonene-d</i>	20,001-50,00
127-91-3	<i>pin-2(10)-ene (pinene beta)</i>	10,001-20,00
115-95-7	<i>acetate linalyle</i> <i>EC Number: 204-116-4</i>	10,001-20,00
* 7212-44-4	<i>nerolidol</i> <i>EC Number: 230-597-5</i>	1,001- 5,00
* 106-24-1	<i>geraniol</i>	1,001- 5,00
* 4602-84-0	<i>farnesol</i> <i>EC Number: 225-004-1</i>	1,001- 5,00
* 140-29-4	<i>cyanure benzyle natural</i> <i>EC Number: 205-410-5</i>	0,101-1,00
* 122-78-1	<i>phenylacetaldehyde</i>	0,101-1,00

04 First-aid measures

- General information:
Seek immediate medical advice.
- After inhalation:
Supply fresh air and to be sure call for a doctor.
- After skin contact:
If skin irritation continues, consult a doctor.
Immediately wash with water and soap and rinse thoroughly.
- After eye contact:
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing:
Seek immediate medical advice.

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05 Fire-fighting measures

- Suitable extinguishing agents:
CO₂, sand, extinguishing powder. Do not use water.
Use fire fighting measures that suit the environment.
 - For safety reasons unsuitable extinguishing agents:
Water with full jet
- * 5.2 Special hazards arising from the substance or mixture
- * Formation of toxic gases is possible during heating or in case of fire.
- Protective equipment:
Do not inhale explosion gases or combustion gases.
 - Additional information
Cool endangered receptacles with water spray.

06 Accidental release measures

- * 6.1 Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.
- * Ensure adequate ventilation
Keep away from ignition sources
- 6.3 Methods and material for containment and cleaning up:
Dispose contaminated material as waste according to item 13.
- 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.

07 Handling and storage

- Handling:
- * 7.1 Precautions for safe handling
- * Keep receptacles tightly sealed.
Keep away from heat and direct sunlight.
Ensure good ventilation/exhaustion at the workplace.
Handle with care. Avoid jolting, friction and impact.
- Information about protection against explosions and fires:
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
 - Storage:
- * Requirements to be met by storerooms and receptacles:
- * Store only in the original receptacle.
Prevent any seepage into the ground.
Use only receptacles specifically permitted for this substance/ product.
- * Further information about storage conditions:
- * Keep receptacle tightly sealed.
Protect from heat and direct sunlight.
Store receptacle in a well ventilated area.
- 7.3 Specific end use(s)
No further relevant information available.

08 Exposure controls/personal protection

- Components with limit values that require monitoring at the workplace:
Not required.
- | CAS No. | Designation of material | % | Type | Value | Unit |
|---------------|-------------------------|---|------|-------|------|
| Not required. | | | | | |
- Additional information:
The lists that were valid during the creation were used as basis.
 - Personal protective equipment:
 - General protective and hygienic measures:
The usual precautionary measures for handling chemicals should be followed.
Keep away from foodstuffs, beverages and feed.

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- * Wash hands before breaks and at the end of work.
Avoid contact with the skin.
Avoid contact with the eyes.
- Breathing equipment: Use suitable respiratory protective device in case of insufficient ventilation.
 - 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: Safety glasses

09 Physical and chemical properties

General Information

Appearance:

Form:	fluid
Color:	pale yellow to yellow
Odor:	floral
Odor threshold:	Not determined.

Change in condition

Boiling point/Boiling range:	Undetermined.
* Flash point:	53,5 °C NFT 60-103 CC
Flammability (solid, gaseous):	Undetermined.
Auto igniting:	Not determined.
Danger of explosion:	Undetermined.
Vapor pressure:	Not determined.
Density:	Not determined.
Relative density	0,8620 0,8750 D20/20
Solubility in / Miscibility with	
Water:	Not determined.
Partition coefficient (n-octanol/water):	Not determined.
Other information	No further relevant information available.

10 Stability and reactivity

- Thermal decomposition / conditions to be avoided:
Undetermined.
- Incompatible materials:
No further relevant information available.
- Hazardous decomposition products:
Undetermined.

11 Toxicological information

- Acute toxicity:
- LD/LC50 values that are relevant for classification:

ISO LD/LC

78-70-6 linalol
Oral, LD50: 2790 mg/kg (rat)
Dermal, LD50: 5610 mg/kg (Rabbit)

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- 5989-27-5** **limonene-d**
Oral, LD50: 4400 mg/kg (rat)
- * **7212-44-4** **nerolidol**
Oral, LD50: >5000 mg/kg (rat) (RIFM 1973)
Oral, LD50: 9626 mg/kg (mouse) (RIFM 1967)
Dermal, LD50: >5000 mg/kg (Rabbit) (RIFM 1973)
- * **4602-84-0** **farnesol**
Oral, LD50: 20000 mg/kg (rat)
Dermal, LD50: 15000 mg/kg (rat)
- * **140-29-4** **cyanure benzyle natural**
Oral, LD50: 270 mg/kg (rat)
Dermal, LD50: 270 mg/kg (Rabbit)
Inhalative, LC50/4h: 0,43 mg/l (rat)
- Primary irritant effect:
 - on the skin:
Irritant to skin and mucous membranes.
 - on the eye:
- * **7212-44-4** **nerolidol**
Irritation of eyes, OECD 405 DRAIZE: NOT CLASSIFIED (Rabbit) (RIFM 1967)
Strong irritant with the danger of severe eye injury.
 - Sensitization:
Sensitization possible through skin contact.
 - Subacute to chronic toxicity:
- * **78-70-6** **linalol**
Oral, NOAEL: 200 mg/kg (rat) (maternal toxicity, Politano and al., 2008)
- OSHA-Ca (Occupational Safety & Health Administration)
Substance is not listed.

12 Ecological information

- Aquatic toxicity:
 - 8016-38-4** **Citrus aurantium var. amara L.**
CE50/48h: 0,445-0,465 mg/l (daphnia) (QSAR 2018)
96h-LC50: 0,766-0,877 mg/l (algae) (QSAR 2018)
 - * **78-70-6** **linalol**
LD50: 27,8 mg/l (fish) ((OECD 203) RIFM 1991)
ErC50(0-72h): 156,7 mg/l (algae)
ErC50(0-48h): 59 mg/l (daphnia) ((OECD 202)
 - 5989-27-5** **limonene-d**
LD50: 0,71 mg/l (fish) (OECD 203)
- Persistence and degradability
Not determined.
- Behavior in environmental systems:
Not determined.
- Bioaccumulative potential
No further relevant information available.
- Ecotoxicological effects:
Not determined.
- Additional ecological information:
- * **General notes:**
Very toxic for aquatic organisms
The material is harmful to the environment.

13 Disposal considerations

- Waste treatment methods
- Recommendation:
Must be specially treated adhering to official regulations.
- Uncleaned packagings:

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- Recommendation:
Disposal must be made according to official regulations.

14 Transport information

- UN-Number

DOT UN1169
ADR UN1169
IMDG UN1169
IATA UN1169

- UN proper shipping name

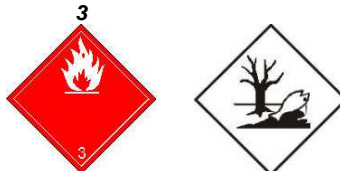
DOT EXTRACTS, AROMATIC, LIQUID
ADR 1169 EXTRACTS, AROMATIC, LIQUID
IMDG * EXTRACTS, AROMATIC, LIQUID (CITRUS AURANTIUM VAR. AMARA L.)
IATA EXTRACTS, AROMATIC, LIQUID

- Transport hazard class(es)

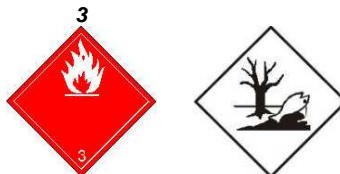
DOT
Class 3 Flammable liquids
Label 3



ADR
Class 3 (F1) Flammable liquids
Label 3



IMDG
Class 3 Flammable liquids
Label 3



IATA
Class 3 Flammable liquids
Label 3



- Packing group

DOT III
ADR III
IMDG III
IATA III

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- Environmental hazards:
Marine pollutant: Yes
- Special precautions for user
Warning: Flammable liquids
Danger code (Kemler): 30
EMS Number: F-E,S-D
- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Not applicable.
- Transport/Additional information:
Not applicable.
DOT
Quantity limitations On passenger aircraft/rail: 60 L On cargo aircraft only: 220 L
IMDG
Limited quantities (LQ) 5L
Excepted quantities (EQ) E1
- UN "Model Regulation":
UN 1169 EXTRACTS, AROMATIC, LIQUID, 3, III, DANGEREUX POUR L'ENVIRONNEMENT

* **15 Regulatory information**

- Safety, health and environmental regulations/legislation specific for the substance or mixture
Non-mandatory

16 Other information

The information in this safety data sheet is based on the state of our knowledge at the date indicated. The information in this sheet must be regarded as a description of the safety requirements for the product, they are not to be considered a warranty or quality specification and have no contractual value on properties and application areas thereof. The information contained in this safety data sheet relate to the specific material designated and may not be valid with respect to the product associated with another product or process, unless it is specified in the text of this document. The required information complies with US regulations in force. It does not exempt the user from knowing and applying all the national regulations in force.

- Relevant phrases

H226	Flammable liquid and vapor.
H227	Combustible liquid.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
* H320	Causes eye irritation.
* H330	Fatal if inhaled.
* H400	Very toxic to aquatic life.
* H401	Toxic to aquatic life.
* H402	Harmful to aquatic life.
* H410	Very toxic to aquatic life with long lasting effects.
* H411	Toxic to aquatic life with long lasting effects.
- Training hints
Minimum training in occupational risk prevention is recommended for personnel who will handle this product, in the purpose of facilitating the understanding and interpretation of this form of safety data in the same way as the labeling of the product.
- Date of preparation / last revision
19.03.2019
- Abbreviations and acronyms:

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IFRA: International Fragrance Association IOFI: International Organization of the Flavor Industry
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
DOT: US Department of Transportation
IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
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

- Sources
IFRA/IOFI Labelling Manual, REACH registration dossier, supplier information
- * Data compared to the previous version altered.