



**AMPHORA AROMATICS
LIMITED**

essential oils, skincare & aromatherapy products

SAFETY DATA SHEET

1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME: **Neroli Absolute**

SUPPLIER: Amphora Aromatics Limited, Airfield House, Western Drive, Bristol, BS14 0AF

TELEPHONE: +44 (0)117-9087770.

PRODUCT NUMBER: **206**

CAS NUMBER: 68916-04-1 / 72968-50-4

EC NUMBER: 277-143-2

INCI: Citrus Aurantium Amara Flower Extract

IDENTIFIED USES: No additional data available.

BIOLOGICAL DEFINITION: Citrus Aurantium Amara Flower Extract is an extract of the flowers of the Bitter Orange, Citrus aurantium L. var. amara L., Rutaceae

2: HAZARDS IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

CLASSIFICATION (EC 1272/2008):

- PHYSICAL HAZARDS: n/a
- HEALTH HAZARDS: Skin irritation, Category 2 (Skin Irrit. 2, H315).
Eye irritation, Category 2 (Eye Irrit. 2, H319).
Skin sensitisation, Category 1B (Skin Sens. 1B, H317).
- ENVIRONMENTAL HAZARDS: Hazardous to the aquatic environment - Chronic hazard, Category 2 (Aquatic Chronic 2, H411).

LABEL ELEMENTS

PICTOGRAM:



SIGNAL WORD:

HAZARD STATEMENTS:

WARNING

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.



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PRECAUTIONARY STATEMENTS:	P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection. P302 + P352 IF ON SKIN: Wash with plenty of water/... P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P333 + P313 If skin irritation or rash occurs: Get medical advice/attention. P391 Collect spillage.
CONTAINS:	EC 225-004-1 FARNESOL EC 203-377-1 GERANIOL 601-029-00-7 (R)-P-MENTHA-1,8-DIENE EC 204-872-5 B-PINENE EC 203-341-5 GERANYL ACETATE EC 203-378-7 NEROL 605-019-00-3 CITRAL EC 201-291-9 ALPHA-PINENE X

OTHER HAZARDS

PBT OR vPvB ACCORDING TO ANNEX XIII:	The substance does not satisfy the PBT or vPvP criteria in accordance with annexe XIII of the REACH regulations EC 1907/2006.
ADVERSE PHYSIO-CHEMICAL PROPERTIES:	No additional data available.
ADVERSE EFFECTS ON HUMAN HEALTH:	The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) \geq 0.1% published by the European Chemicals Agency (ECHA) under article 57 of REACH: http://echa.europa.eu/fr/candidate-list-table .

3: COMPOSITION/INFORMATION ON INGREDIENTS

2.5 – 10.0% Indole

CAS NUMBER: 120-752-9	EC NUMBER: 204-420-7
CLASSIFICATION (EC 1272/2008):	Acute Tox. 3, H311 Acute Tox. 4, H302

<2.5% Geranyl Acetate

CAS NUMBER: 105-87-3	EC NUMBER: 203-341-5
CLASSIFICATION (EC 1272/2008):	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Chronic 3, H412

<2.5% Benzyl Nitrile

CAS NUMBER: 140-29-4	EC NUMBER: 205-410-5
CLASSIFICATION (EC 1272/2008):	Acute Tox. 3, H311 Acute Tox. 1, H330 Acute Tox. 3, H301

2.5% Nerolidol (Trans)

CAS NUMBER: 40716-66-3	EC NUMBER: 255-053-4
CLASSIFICATION (EC 1272/2008):	Eye Irrit. 2, H319 Aquatic Acute 1, H400, M Acute = 1 Aquatic Chronic 1, H410, M Chronic = 1

SDS: 206 Neroli Absolute

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**AMPHORA AROMATICS
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<2.5% Nerol

CAS NUMBER: 106-25-2

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 203-378-7

Eye Irrit. 2, H319

Skin Irrit. 2, H315

Skin Sens. 1B, H317

<2.5% Citral

CAS NUMBER: 5392-40-5

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 226-394-6

Skin Irrit. 2, H315

Skin Sens. 1, H317

<2.5% Alpha Pinene X

CAS NUMBER: 80-56-8-

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 201-291-9

Asp. Tox. 1, H304

Flam. Liq. 3, H226

Skin Irrit. 2, H315

Skin Sens. 1B, H317

Aquatic Acute 1 H400 M Acute = 1

Aquatic Chronic 1 H410 M Chronic = 1

The full text for all hazard statements is displayed in Section 16.

4: FIRST AID MEASURES

INHALATION:

No additional data available.

INGESTION:

Do not give the patient anything orally.

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.

Keep the person exposed at rest. Do not force vomiting.

Seek medical attention immediately, showing the label.

SKIN CONTACT:

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.

Watch out for any remaining product between skin and clothing, watches, shoes, etc.

In the event of an allergic reaction, seek medical attention.

If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted, or the patient transferred to hospital.

EYE CONTACT:

Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.

If there is any redness, pain or visual impairment, consult an ophthalmologist.

GENERAL INFORMATION:

No additional data available.

NOTES FOR THE DOCTOR:

No additional data available.



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5: FIREFIGHTING MEASURES

EXTINGUISHING MEDIA RECOMMENDED:

- Sprayed water or water mist
- Foam
- Multipurpose ABC powder
- BC powder
- Carbon dioxide (CO₂)

UNSUITABLE METHODS OF EXTINCTION:

- Water jet

SPECIAL MEASURES:

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed:

- carbon monoxide (CO)
- carbon dioxide (CO₂).

EXTINGUISHING PROCEDURES:

No additional data available.

6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:

Consult the safety measures listed under headings 7 and 8.

For non-fire-fighters

Avoid any contact with the skin and eyes.

For fire-fighters

Fire-fighters will be equipped with suitable personal protective equipment (See section 8).

ENVIRONMENT PRECAUTIONS:

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

CLEANING UP METHODS FOR SPILLAGES:

Clean preferably with a detergent, do not use solvents.

7: HANDLING AND STORAGE

USAGE PRECAUTIONS:

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

Ensure that there is adequate ventilation, especially in confined areas.

FIRE PREVENTION:

Handle in well-ventilated areas.

Prevent access by unauthorised personnel.

RECOMMENDED EQUIPMENT AND PROCEDURES:

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Avoid skin and eye contact with this mixture.

Packages which have been opened must be reclosed carefully and stored in an upright position.

STORAGE PRECAUTIONS:

Keep the container tightly closed in a dry, well-ventilated place.

The floor must be impermeable and form a collecting basin so that, in the event of an accidental spillage, the liquid cannot spread beyond this area.

PACKAGING:

Always keep in packaging made of an identical material to the original.

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8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

CAS	TWA	STEL	CEILING	DEFINITION	CRITERIA
127-91-3	20ppm	-	-	-	-
80-56-8	20ppm	-	-	-	-

DERIVED NO EFFECT LEVEL (DNEL) OR DERIVED MINIMUM EFFECT LEVEL (DMEL):

LINALOOL (CAS: 78-70-6)

FINAL USE: WORKERS.

EXPOSURE METHOD: Dermal contact
 POTENTIAL HEALTH EFFECTS: Short term systemic effects.
 DNEL 5mg/kg body weight/day

EXPOSURE METHOD: Dermal contact
 POTENTIAL HEALTH EFFECTS: Sort term local effects.
 DNEL 15mg of substance/cm²

EXPOSURE METHOD: Dermal contact.
 POTENTIAL HEALTH EFFECTS: Long term systemic effects.
 DNEL 2.5 mg/kg body weight/day

EXPOSURE METHOD: Dermal contact.
 POTENTIAL HEALTH EFFECTS: Long term local effects.
 DNEL 15 mg of substance/cm²

EXPOSURE METHOD: Inhalation.
 POTENTIAL HEALTH EFFECTS: Short term systemic effects.
 DNEL 16.5 mg of substance/m³

EXPOSURE METHOD: Inhalation
 POTENTIAL HEALTH EFFECTS: Long term systemic effects.
 DNEL 2.8 mg of substance/m³

FINAL USE: CONSUMERS

EXPOSURE METHOD: Ingestion.
 POTENTIAL HEALTH EFFECTS: Short term systemic effects.
 DNEL 1.2 mg/kg body weight/day

EXPOSURE METHOD: Ingestion.
 POTENTIAL HEALTH EFFECTS: Long term systemic effects.
 DNEL 0.2 mg/kg body weight/day

EXPOSURE METHOD: Dermal contact.
 POTENTIAL HEALTH EFFECTS: Short term systemic effects.
 DNEL 2.5 mg/kg body weight/day

EXPOSURE METHOD: Dermal contact.
 POTENTIAL HEALTH EFFECTS: Short term local effects.
 DNEL 15 mg of substance/cm²

EXPOSURE METHOD: Dermal contact.
 POTENTIAL HEALTH EFFECTS: Long term systemic effects.
 DNEL 1.25 mg/kg body weight/day

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LIMITED**

essential oils, skincare & aromatherapy products

EXPOSURE METHOD:	Dermal contact.
POTENTIAL HEALTH EFFECTS:	Long term local effects.
DNEL	15 mg of substance/cm ²
EXPOSURE METHOD:	Inhalation.
POTENTIAL HEALTH EFFECTS:	Short term systemic effects.
DNEL	4.1 mg of substance/m ³
EXPOSURE METHOD:	Inhalation.
POTENTIAL HEALTH EFFECTS:	Long term systemic effects.
DNEL	0.7 mg of substance/m ³

PREDICTED NO EFFECT CONCENTRATION (PNEC):

LINALOOL (CAS: 78-70-6)

ENVIRONMENTAL COMPARTMENT:	Soil
PNEC:	0.327 mg/kg
ENVIRONMENTAL COMPARTMENT:	Fresh water
PNEC:	0.2 mg/l
ENVIRONMENTAL COMPARTMENT:	Sea water
PNEC:	0.02 mg/l
ENVIRONMENTAL COMPARTMENT:	Intermittent waste water
PNEC:	2 mg/l
ENVIRONMENTAL COMPARTMENT:	Fresh water sediment.
PNEC:	2.22 mg/kg
ENVIRONMENTAL COMPARTMENT:	Marine sediment
PNEC:	0.222 mg/kg
ENVIRONMENTAL COMPARTMENT:	Waste water treatment plant
PNEC:	10 mg/l

PROTECTIVE EQUIPMENT:



PROCESS CONDITIONS:	No additional data available.
ENGINEERING MEASURES:	Provide adequate ventilation.
RESPIRATORY EQUIPMENT:	No additional data available.
HAND PROTECTION:	Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374. Gloves must be selected according to the application and duration of use at the workstation. Protective gloves need to be selected according to their suitability for the workstation in question: other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required. Type of gloves recommended: - Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR)) Recommended properties: - Impervious gloves in accordance with standard EN374

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EYE PROTECTION:	Avoid contact with eyes. Use eye protectors designed to protect against liquid splashes Before handling, wear safety goggles with protective sides, accordance to standard EN166. In the event of high danger, protect the face with a face shield. Prescription glasses are not considered as protection. Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours. Provide eyewash stations in facilities where the product is handled constantly.
OTHER PROTECTION:	Avoid skin contact. Wear suitable protective clothing. Suitable type of protective clothing: In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605 to prevent skin contact. In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034 to prevent skin contact. Work clothing worn by personnel shall be laundered regularly. After contact with the product, all parts of the body that have been soiled must be washed.
HYGIENE MEASURES:	Good personal hygiene practices are always advisable, especially when working with chemicals / oils. Keep away from foodstuffs, beverages and feed.
PERSONAL PROTECTION:	No additional data available.
SKIN PROTECTION:	No additional data available.
ENVIRONMENTAL EXPOSURE CONTROLS;	No additional data available.

9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Liquid.
COLOUR:	Mobile liquid, orange - brown
ODOUR:	Characteristic.
RELATIVE DENSITY:	0.880 - 0.940 @ 20°C
FLASH POINT (°C):	61°C
REFRACTIVE INDEX:	1.455 - 1.490 @ 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.



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LIMITED**

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10: STABILITY AND REACTIVITY

REACTIVITY:	No additional data available.
CHEMICAL STABILITY:	This substance is stable under the recommended handling and storage conditions in section 7.
POSSIBLE HAZARDOUS REACTIONS:	When exposed to high temperatures, the mixture can release hazardous decomposition products, such as carbon monoxide and dioxide, fumes and nitrogen oxide.
CONDITIONS TO AVOID:	No additional data available.
INCOMPATIBLE MATERIALS:	No additional data available.
HAZARDOUS DECOMPOSITION PRODUCTS:	The thermal decomposition may release/form: - carbon monoxide (CO) - carbon dioxide (CO ₂).

11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY: May cause an allergic reaction by skin contact.

Acute toxicity:

ALPHA-PINENE X (CAS: 80-56-8)

Oral route: LD50 = 3500 mg/kg

NEROL (CAS: 106-25-2)

Oral route: LD50 = 4500 mg/kg

BENZYL NITRILE (CAS: 140-29-4)

Oral route: LD50 = 260 mg/kg

Dermal route: LD50 = 270 mg/kg

Inhalation route (Vapours): LC50 = 0.2 mg/l

INDOLE (CAS: 120-72-9)

Oral route: LD50 = 1000 mg/kg

Dermal route: LD50 = 790 mg/kg

GERANIOL (CAS: 106-24-1)

Oral route: LD50 = 3600 mg/kg

LINALOOL (CAS: 78-70-6)

Oral route: LD50 = 2790 mg/kg

Mixture

Acute toxicity:

Oral route: No observed effect.

LD50 = 54558 mg/kg

Inhalation route (Dusts/mist): No effect.

Duration of exposure: 4 h

LC50 = 98 mg/l



**AMPHORA AROMATICS
LIMITED**

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SKIN CORROSION / IRRITATION:	May cause irreversible damage to the skin; namely inflammation of the skin or the formation of erythema and eschar or oedema following exposure up to four hours.
SERIOUS EYE DAMAGE / IRRITATION:	May have reversible effects on the eyes, such as eye irritation which is totally reversible by the end of observation at 21 days. Splashes in the eyes may cause irritation and reversible damage.
RESPIRATORY OR SKIN SENSITISATION:	May cause an allergic skin reaction.
GERM CELL MUTAGENICITY:	No additional data available.
CARCINOGENICITY:	CAS 5989-27-5: IARC Group 3: The agent is not classifiable as to its carcinogenicity to humans.
REPRODUCTIVE TOXICITY:	No additional data available.
STOT-SINGLE EXPOSURE:	No additional data available.
STOT-REPEATED EXPOSURE:	No additional data available.
ASPIRATION HAZARD:	No additional data available.
PHOTO-TOXICITY:	No additional data available.
OTHER INFORMATION:	No additional data available.

12: ECOLOGICAL INFORMATION

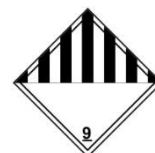
ECOTOXICITY:	Toxic to aquatic life with long lasting effects. The product must not be allowed to run into drains or waterways.
PERSISTENCE AND DEGRADABILITY:	No additional data available.
BIOACCUMULATIVE POTENTIAL:	No additional data available.
MOBILITY IN SOIL:	No additional data available.
RESULTS OF PBT AND VPVB ASSESSMENT:	No additional data available.
PRECAUTIONS:	No additional data available.

13: DISPOSAL CONSIDERATIONS

DISPOSAL METHODS:	Do not pour into drains or waterways.
- WASTE:	Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals. Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company. Do not contaminate the ground or water with waste, do not dispose of waste into the environment.
- SOILED PACKAGING:	Empty container completely. Keep label(s) on container. Give to a certified disposal contractor.

14: TRANSPORT INFORMATION

UN No. ROAD:	UN3082
UN No. SEA:	UN3082
UN No. AIR:	UN3082
PROPER SHIPPING NAME:	UN3082=ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (nerolidol (isomer unspecified)).
TRANSPORT HAZARD CLASS(ES):	
- ADR/RID/ADN CLASS:	9
- IMDG CLASS:	9
- ICAO CLASS:	9



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LIMITED**

essential oils, skincare & aromatherapy products

PACKING GROUP:

- ADR/RID/ADN PACKING GROUP: III
- IMDG PACKING GROUP: III
- ICAO PACKING GROUP: III

ENVIRONMENTAL HAZARDS:

Environmentally Hazardous
Substance/Marine Pollutant.



SPECIAL PRECAUTIONS FOR USER:

ADR/RID

CLASS	CODE	PACK GR.	LABEL	IDENT.	LQ	PROVIS.	EQ	CAT.	TUNNEL
9	M6	III	9	90	5L	274 335 375 601	E1	3	E

Not subject to this regulation if Q <= 5 l / 5 kg (ADR 3.3.1 - DS 375).

MDG

CLASS	2° LABEL	PACK GR.	LQ	EMS	PROVIS.	EQ
9	-	III	5L	F-A, S-F	274 335 969	E1

Not subject to this regulation if Q <= 5 l / 5 kg (IMDG 3.3.1 - 2.10.2.7)

IATA

CLASS	2° LABEL	PACK GR.	PASSAGER	PASSAGER	CARGO	CARGO	NOTE	EQ
9	-	III	964	450 L	964	450 L	A97, A158, A197	E1
9	-	III	Y964	30 kg G	-	-	A97, A158, A197	E1

TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL73/78 AND THE IBC CODE: No additional data available.

15: REGULATORY INFORMATION

STATUTORY INSTRUMENTS:

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

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.

GUIDANCE:

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



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LIMITED**

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16: OTHER INFORMATION

**HAZARD AND/OR PRECAUTIONARY
STATEMENTS IN FULL**

H226 Flammable liquid and vapour.
H301 Toxic if swallowed.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H311 Toxic in contact with skin.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H330 Fatal if inhaled.
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.

Q.C. REQUIREMENTS.

In-line with general product specification. Always satisfy suitability for specific application.
Retest after 6 months.

The data provided in this material safety data sheet is meant to represent typical data/analysis for this product and is correct to the best of our knowledge. The data was obtained from current and reliable sources, but is supplied without warranty, expressed or implied, regarding its' correctness or accuracy. It is the user's responsibility to determine safe conditions for the use of this product, and to assume liability for loss, injury, damage or expense arising from improper use of this product. The information provided does not constitute a contract to supply to any specification, or for any given application, and buyers should seek to verify their requirements and product use.