



**AMPHORA AROMATICS
LIMITED**

essential oils, skincare & aromatherapy products

SAFETY DATA SHEET

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

PRODUCT NAME: **Tangerine Essential Oil**

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

TELEPHONE: +44 (0)117-9087770.

PRODUCT NUMBER: **50**

CAS NUMBER: 8008-31-9/ 84929-38-4

EC NUMBER: - / 284-521-

INCI: Citrus Reticulata Peel Oil

IDENTIFIED USES: Suitable for use in flavour, fragrance cosmetic and professional applications only.

BIOLOGICAL DEFINITION: Citrus Reticulata Peel Oil is the volatile oil obtained from the peel of tangerine, Citrus reticulata, Rutaceae

2: HAZARDS IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

CLASSIFICATION (EC 1272/2008):

- PHYSICAL HAZARDS: Flammable Liquid, Hazard Category 3
- HEALTH HAZARDS: Skin Corrosion / Irritation Category 2
Sensitization - Skin Category 1
Aspiration Hazard Category 1
- ENVIRONMENTAL HAZARDS: Hazardous to the Aquatic Environment - Acute Hazard Category 1
Hazardous to the Aquatic Environment - Long-term Hazard Category 1

LABEL ELEMENTS

PICTOGRAM:



SIGNAL WORD:

DANGER

HAZARD STATEMENTS:

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



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PRECAUTIONARY STATEMENTS:	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. 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. P333/313, If skin irritation or rash occurs: Get medical advice/attention. P362, Take off contaminated clothing and wash before reuse.
SUPPLEMENTARY PRECAUTIONARY STATEMENTS	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.
CONTAINS:	Limonene, Myrcene, α -Pinene, β -Pinene, γ -Terpinene

3: COMPOSITION/INFORMATION ON INGREDIENTS

≤ 98.0% Limonene

CAS NUMBER: 5989-27-5

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 227-813-5

Flam. Liq. 3 - H226

Asp. Tox. 1 - H304

Skin Irrit. 2 - H315

Skin Sens. 1 - H317

Aquatic Acute 1 - H400

Aquatic Chronic 1 - H410

≤ 4.0% Myrcene

CAS NUMBER: 123-35-3

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 204-622-5

Flam. Liq. 3 - H226

Asp. Tox. 1 - H304

Skin Irrit. 2 - H315

Eye Irrit. 2 - H319

Aquatic Acute 1 - H400

Aquatic Chronic 1 - H410



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≤ 2.0% α-Pinene

CAS NUMBER: 80-56-8

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 201-291-9

Flam. Liq. 3 - H226

Acute Tox. 4 - H302

Asp. Tox. 1- H304

Skin Irrit. 2 - H315

Skin Sens.1 -H317

Aquatic Acute 1 – H400

Aquatic Chronic 1- H410

≤ 1.0% Linalool

CAS NUMBER: 78-70-6

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 201-134-4

Skin Irrit. 2 - H315

Skin Sens.1 -H317

Eye Irrit. 2 - H319

≤ 1.0% γ-Terpinene (p-mentha-1,4-diene)

CAS NUMBER: 99-85-4

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 202-794-6

Flam. Liq. 3 – H226

Asp Tox. 1 –H304

≤ 1.0% Decanal

CAS NUMBER: 112-31-2

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 203-872-5

Eye Irrit. 2 - H319

Aquatic Chronic 3 - H412

≤ 1.0% β-Pinene

CAS NUMBER: 127-91-3

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 204-872-5

Flam. Liq. 3 -H226

Asp. Tox. 1 - H304

Skin Irrit. 2- H315

Skin Sens.1 -H317

Aquatic Acute 1 –H400

Aquatic Chronic 1 - H410

≤ 0.2% Citral

CAS NUMBER: 5392-40-5

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 226-394-6

Skin Irrit. 2 - H315

Skin Sens. 1 - H317

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.



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4: FIRST AID MEASURES

INHALATION:	Remove from exposure area to fresh air. Obtain medical advice immediately.
INGESTION:	Wash mouth out with water and obtain medical advice immediately.
SKIN CONTACT:	Remove contaminated clothing. Wash thoroughly with soap and water. Seek medical advice if irritation persists or there is any sign of tissue damage.
EYE CONTACT:	Flush with plenty of water and seek medical advice.
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.
INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:	Treat symptomatically.

5: FIREFIGHTING MEASURES

EXTINGUISHING MEDIA RECOMMENDED:	Carbon dioxide, Dry powder, Foam. Spray to base of flames.
SPECIAL HAZARDS ARISING FROM THE PRODUCT:	In case of fire, Carbon monoxide, Unidentified organic compounds may be liberated.
ADVICE FOR FIREFIGHTERS:	Wear protective clothing. Avoid inhalation of vapours. Wear suitable respiratory equipment, if insufficient ventilation. Closed containers may build up pressure when exposed to heat and should be cooled with water spray.

6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:	Wear protective clothing as described in Section 8 of this safety data sheet. Maintain good occupational and personal hygiene. Avoid inhalation of vapours and contact with skin and eyes.
ENVIRONMENT PRECAUTIONS:	Do not discharge into drains, water courses or onto the ground.
CLEANING UP METHODS FOR SPILLAGES:	Remove ignition sources. Ensure adequate ventilation. Absorb with inert, non-combustible, inorganic absorbent material, sweep up and remove to an approved disposal container.

7: HANDLING AND STORAGE

USAGE PRECAUTIONS:	Apply good manufacturing practice & industrial hygiene practices, ensuring proper workplace ventilation. Keep away from heat, sparks and open flame.
OCCUPATIONAL HYGIENE:	Observe good personal hygiene, and do not eat, drink or smoke whilst handling.
STORAGE PRECAUTIONS:	Store in tightly closed original container, in a cool, dry & ventilated area away from heat sources & protected from light. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge.
SPECIFIC END USE(S):	Flavours, Fragrances: Use in accordance with good manufacturing and industrial hygiene practices.



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8: EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL PARAMETERS:

No additional data available.

PROTECTIVE EQUIPMENT:



PROCESS CONDITIONS:

Provide eyewash station.

ENGINEERING MEASURES:

Provide adequate ventilation Avoid static discharges in working area.

RESPIRATORY EQUIPMENT:

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.

HAND PROTECTION:

Avoid all skin contact. Wear chemical resistant gloves (PVC).

EYE PROTECTION:

Avoid contact with eyes. Wear approved safety goggles.

OTHER PROTECTION:

No additional data available.

HYGIENE MEASURES:

Good personal hygiene practices are always advisable, especially when working with chemicals / oils. Keep away from foodstuffs, beverages and feed.

PERSONAL PROTECTION:

Avoid inhalation and contact with skin and eyes.

SKIN PROTECTION:

Wear apron or protective clothing in case of splashes.

ENVIRONMENTAL EXPOSURE CONTROLS:

Avoid discharging into drainage water. Only eliminate by authorised companies.

9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:

Liquid, orange to dark orange.

COLOUR:

Orange to dark orange.

ODOUR:

Characteristic – Sweet citrus, tangerine.

RELATIVE DENSITY:

Approx. 0.857 @ 20°C

FLASH POINT (°C):

45

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.



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10: STABILITY AND REACTIVITY

REACTIVITY:	Presents no significant reactivity hazards, by itself or in contact with water.
CHEMICAL STABILITY:	Stable under normal temperature conditions and recommended use.
POSSIBLE HAZARDOUS REACTIONS:	Not expected under normal temperature conditions and recommended use.
CONDITIONS TO AVOID:	Heat, sparks and open flames.
INCOMPATIBLE MATERIALS:	Avoid contact with strong acids, alkalis and oxidising agents.
HAZARDOUS DECOMPOSITION PRODUCTS:	Not expected under normal temperature conditions and recommended use. Thermal decomposition may release/form oxides of carbon (carbon monoxide, carbon dioxide) and other toxic gases.

11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

- Assumed Toxicity Value (LD50 or ATE) for Acute Oral Toxicity	83971.44
- Assumed Toxicity Value (LD50 or ATE) for Acute Dermal Toxicity:	n/a
- Assumed Toxicity Value (LC50 or ATE) for Acute Inhalation Toxicity:	n/a
- Inhalation Route:	n/a
SKIN CORROSION / IRRITATION:	Causes skin irritation.
SERIOUS EYE DAMAGE / IRRITATION:	No additional data available.
RESPIRATORY OR SKIN SENSITISATION:	May cause an allergic skin reaction.
GERM CELL MUTAGENICITY:	Not classified.
CARCINOGENICITY:	Not classified.
REPRODUCTIVE TOXICITY:	Not classified.
STOT-SINGLE EXPOSURE:	Not classified.
STOT-REPEATED EXPOSURE:	Not classified.
ASPIRATION HAZARD:	May be fatal if swallowed and enters airways.
PHOTO-TOXICITY:	No additional data available.
OTHER INFORMATION;	No additional data available.

12: ECOLOGICAL INFORMATION

ECOTOXICITY:	Very toxic to aquatic life with long lasting effects.
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:	This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.
PRECAUTIONS:	Do not discharge into the environment especially not into waterways, sewers and the sea.



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13: DISPOSAL CONSIDERATIONS

DISPOSAL METHODS:

Do not release into the environment. Collect waste into suitable containers and contact hazardous chemical disposal company.

14: TRANSPORT INFORMATION

UN No. ROAD: 1169
UN No. SEA: 1169
UN No. AIR: 1169
PROPER SHIPPING NAME: Extracts, Aromatic, Liquid

TRANSPORT HAZARD CLASS(ES):

- ADR/RID/ADN CLASS: 3 Flammable Liquid
- IMDG CLASS: 3 Flammable Liquid
- ICAO CLASS: 3 Flammable Liquid



PACKING GROUP:

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

ENVIRONMENTAL HAZARDS:

Environmentally Hazardous
Substance/Marine Pollutant.



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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16: OTHER INFORMATION

HAZARD AND/OR PRECAUTIONARY
STATEMENTS IN FULL:

H226 - Flammable liquid and vapour.
H302 - Harmful if swallowed.
H304 - May be fatal if swallowed and enters airways.
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
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.