



**AMPHORA AROMATICS
LIMITED**

essential oils, skincare & aromatherapy products

SAFETY DATA SHEET

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

PRODUCT NAME: Thyme Essential Oil

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

TELEPHONE: +44 (0)117-9087770.

PRODUCT NUMBER: 52

CAS NUMBER: 84929-51-1

EC NUMBER: 284-535-7

INCI: Thymus vulgaris Leaf Oil

IDENTIFIED USES: Suitable for use in cosmetics, fragrances, flavourings and professional applications only.

BIOLOGICAL DEFINITION: Thymus Vulgaris Leaf Oil is the volatile oil obtained from the leaves of Thymus vulgaris, Lamiaceae

2: HAZARDS IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

CLASSIFICATION (EC 1272/2008):

PHYSICAL HAZARDS: FLAM. LIQ. 3 H226

HEALTH HAZARDS: ACUTE TOX. 4 H302

ASP. TOX. 1 H304

SKIN CORR. 1B H314

SKIN SENS. 1B H317

EYE DAM. 1 H318

STOT SE 3 H335

ENVIRONMENTAL HAZARDS: AQUATIC CHRONIC 2 H411

LABEL ELEMENTS

PICTOGRAM:



SIGNAL WORD:

Danger

HAZARD STATEMENTS:

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

H411 Toxic to aquatic life with long lasting effects.



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PRECAUTIONARY STATEMENTS:	P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking. P260 Do not breathe vapours/spray. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. P391 Collect spillage. P501 Dispose of contents/container according to the local regulations. P264 Wash hands and exposed skin thoroughly after handling.
CONTAINS:	Thymol, para-Cymene

3: COMPOSITION/INFORMATION ON INGREDIENTS

30.0 - 40% Thymol CAS NUMBER: 89-83-8 CLASSIFICATION (EC 1272/2008):	EC NUMBER: 201-944-8 Acute Tox. 4 - H302 Skin Corr. 1B - H314 Aquatic Chronic 2 - H411
30.0 – 40.0% para-Cymene CAS NUMBER: 99-87-6 CLASSIFICATION (EC 1272/2008):	EC NUMBER: 202-796-7 Flam. Liq. 3 - H226 Asp. Tox. 1 - H304 Skin Irrit. 2- H315 Eye Irrit. 2- H319 STOT SE 3- H335
7.0 – 12% alpha-Terpineol CAS NUMBER: 98-55-5 CLASSIFICATION (EC 1272/2008):	EC NUMBER: 202-680-6 Skin Irrit. 2- H315 Eye Irrit. 2- H319
3.0 – 7.0% Linalool CAS NUMBER: 78-70-6 CLASSIFICATION (EC 1272/2008):	EC NUMBER: 201-134-4 Skin Irrit. 2 - H315 Skin Sens. 1B - H317 Eye Irrit. 2 - H319



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1.0 – 4.0% alpha-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 Sens. 1 - H317

Aquatic Acute 1 - H400

Aquatic Chronic 1 - H410

1.0 – 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

<1.0% Camphene

CAS NUMBER: 79-92-5

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 201-234-8

Flam. Sol. 1- H228

Eye Irrit. 2- H319

Aquatic Chronic 1- H410

<1.0% Terpinolene

CAS NUMBER: 586-62-9

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 209-578-0

Asp. Tox. 1- H304

Skin Sens. 1B- H317

Aquatic Acute 1- H400

Aquatic Chronic 1- H410

<1.0% 1,8 - Cineole

CAS NUMBER: 470-82-6

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 207-431-5

Flam. Liq. 3 - H226

Skin Sens. 1- H317

<1.0% beta-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

< 0.80% d-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

The Full Text for all Hazard Statements are Displayed in Section 16.



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4: FIRST AID MEASURES

INHALATION:	Remove victim immediately from source of exposure. Get medical advice/attention.
INGESTION:	Do not induce vomiting. Ingestion may cause nausea and vomiting. Immediately rinse mouth and provide fresh air. Get medical advice/attention.
SKIN CONTACT:	Remove contaminated clothes. Wash affected areas with copious amounts of water. Get medical advice/attention if any discomfort continues.
EYE CONTACT:	Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical advice/attention immediately. Continue to rinse.
MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:	After continuous contact with skin and/or eyes causes burns and sores. Allergic contact dermatitis.
INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED :	If the victim feels unwell, seek medical advice immediately. If breathing is difficult then provide artificial respiration.

5: FIREFIGHTING MEASURES

EXTINGUISHING MEDIA RECOMMENDED:	Carbon dioxide, Dry powder or Foam. Cool containers with water.
SPECIAL HAZARDS ARISING FROM THE PRODUCT:	Decomposition products can become highly toxic and, consequently, can present a serious health risk. Do not breathe in smoke.
ADVICE FOR FIREFIGHTERS:	In the event of fire, combustion gas or dangerous vapours may appear. Generates explosive mixtures with air. Use chemical protection clothing and self-contained breathing apparatus.

6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:	Avoid substance contact. Wear protective clothing as described in Section 8 of this safety data sheet.
ENVIRONMENT PRECAUTIONS:	Do not inhale vapours. Keep away from ignition sources. Keep away from sewerage, surface water and groundwater. Do not allow to enter sewerage system.
CLEANING UP METHODS FOR SPILLAGES:	Collect the spilled material with sand or absorbent material. Use only machines that produce no spark.

7: HANDLING AND STORAGE

USAGE PRECAUTIONS:	Keep away from sources of ignition. The normal safety precautions for handling chemicals should always be observed. Do not eat, drink or smoke in work areas. Immediately change contaminated clothing. Wash hands after working with substance.
STORAGE PRECAUTIONS:	Store in full tight sealed containers in a well ventilated place, away from sources of ignition and heat, at temperature below 20 °C and protected from light.



**AMPHORA AROMATICS
LIMITED**

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8: EXPOSURE CONTROLS/PERSONAL PROTECTION

PROTECTIVE EQUIPMENT:



APPROPRIATE ENGINEERING CONTROLS:

Provide adequate ventilation.

Provide eyewash station.

EYE/FACE PROTECTION:

Wear safety goggles in accordance with standard EN166.

HAND PROTECTION:

Wear suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.

OTHER SKIN AND BODY 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.

RESPIRATORY PROTECTION:

Ventilation, local exhaust, or breathing protection.

ENVIRONMENTAL EXPOSURE CONTROLS:

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

9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:

Clear liquid.

COLOUR:

Pale yellow to yellow.

ODOUR:

Characteristic.

FLASH POINT °C:

60°C

SPECIFIC GRAVITY @ 20°C:

Approx. 0.920

REFRACTIVE INDEX @ 20°C:

Approx. 1.500

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.

10: STABILITY AND REACTIVITY

REACTIVITY:

No hazardous reactions are expected because the product is stable under recommended storage conditions.

Chemical stability:

Chemically stable under the conditions of storage, handling and use.

POSSIBLE HAZARDOUS REACTIONS:

Not expected under normal conditions of use.

CONDITIONS TO AVOID:

Keep away from ignition sources. Protect from light and air.

INCOMPATIBLE MATERIALS:

Avoid contact with strong acids, alkalis or 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.



**AMPHORA AROMATICS
LIMITED**

essential oils, skincare & aromatherapy products

11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:	Harmful if swallowed. (Calculation method)
SKIN CORROSION / IRRITATION:	Causes severe skin burns and eye damage.
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.
REPRODUCTIVE TOXICITY:	Not classified.
STOT-SINGLE EXPOSURE:	May cause respiratory irritation.
STOT-REPEATED EXPOSURE:	No additional data available.
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

TOXICITY: Toxic to aquatic life with long lasting effects.

PERSISTENCE AND DEGRADABILITY:

IDENTIFICATION	DEGRADABILITY		BIODEGRADABILITY	
p-Cymene	BOD5	n/a	Concentration	100 mg/L
CAS: 99-87-6	COD	n/a	Period	14 days
EC: 202-796-7	BOD5/COD	n/a	% Biodegradable	88 %
alpha-Terpineol	BOD5	n/a	Concentration	100 mg/L
CAS: 98-55-5	COD	n/a	Period	14 days
EC: 202-680-6	BOD5/COD	n/a	% Biodegradable	84,6 %
Linalool	BOD5	n/a	Concentration	100 mg/L
CAS: 78-70-6	COD	n/a	Period	28 days
EC: 201-134-4	BOD5/COD	0.55	% Biodegradable	90 %
Myrcene	BOD5	n/a	Concentration	100 mg/L
CAS: 123-35-3	COD	n/a	Period	14 days
EC: 204-622-5	BOD5/COD	n/a	% Biodegradable	86 %
Camphene	BOD5	n/a	Concentration	100 mg/L
CAS: 79-92-5	COD	n/a	Period	28 days
EC: 201-234-8	BOD5/COD	n/a	% Biodegradable	4 %
Terpinolene	BOD5	n/a	Concentration	2 mg/L
CAS: 586-62-9	COD	n/a	Period	28 days
EC: 209-578-0	BOD5/COD	n/a	% Biodegradable	81 %
d-Limonene	BOD5	n/a	Concentration	n/a
CAS: 5989-27-5	COD	n/a	Period	28 days
EC: 227-813-5	BOD5/COD	n/a	% Biodegradable	100 %



**AMPHORA AROMATICS
LIMITED**

essential oils, skincare & aromatherapy products

BIOACCUMULATIVE POTENTIAL:

IDENTIFICATION	BIOACCUMULATION POTENTIAL	
p-Cymene	BCF	286
CAS: 99-87-6	Pow Log	4.1
EC: 202-796-7	Potential	High
alpha-Terpineol	BCF	110
CAS: 98-55-5	Pow Log	2.98
EC: 202-680-6	Potential	High
Linalool	BCF	39
CAS: 78-70-6	Pow Log	2.97
EC: 201-134-4	Potential	Moderate
Myrcene	BCF	324
CAS: 123-35-3	Pow Log	5.29
EC: 204-622-5	Potential	High
Camphene	BCF	1290
CAS: 79-92-5	Pow Log	4.22
EC: 201-234-8	Potential	Very High
Terpinolene	BCF	334
CAS: 586-62-9	Pow Log	4.29
EC: 209-578-0	Potential	High
1,8-Cineol	BCF	-
CAS: 470-82-6	Pow Log	2.74
EC: 207-431-5	Potential	-
d-limonene	BCF	660
CAS: 5989-27-5	Pow Log	4.83
EC: 227-813-5	Potential	High

MOBILITY IN SOIL:

IDENTIFICATION	ABSORPTION/DESORPTION		VOLATILITY	
p-CYMENE	KOC	4050	HENRY	1114,58 PA·M ³ /MOL
CAS: 99-87-6	CONCLUSION	LOW	DRY SOIL	N/A
EC: 202-796-7	SURFACE TENSION	2,835E-2 N/M (25°C)	MOIST SOIL	YES
MYRCENE	KOC	1300	HENRY	6515,2 PA·M ³ /MOL
CAS: 123-35-3	CONCLUSION	LOW	DRY SOIL	N/A
EC: 204-622-5	SURFACE TENSION;	N/A	MOIST SOIL	YES
CAMPHENE	KOC	N/A	HENRY	N/A
CAS: 79-92-5	CONCLUSION	N/A	DRY SOIL	N/A
EC: 201-234-8	SURFACE TENSION:	1,098E-2 N/M (205,93°C)	MOIST SOIL	N/A
TERPINOLENE	KOC	1120	HENRY	N/A
CAS: 586-62-9	CONCLUSION	LOW	DRY SOIL	N/A
EC: 209-578-0	SURFACE TENSION	2,865E-2 N/M (25°C)	MOIST SOIL	N/A
1,8-CINEOL	KOC	N/A	HENRY	N/A
CAS: 470-82-6	CONCLUSION	N/A	DRY SOIL	N/A
EC: 207-431-5	SURFACE TENSION	3,24E-2 N/M (25°C)	MOIST SOIL	N/A
D-LIMONENE	KOC	6324	HENRY	N/A
CAS: 5989-27-5	CONCLUSION		DRY SOIL	N/A
EC: 227-813-5	SURFACE TENSION	2,675E-2 N/M (25°C)	MOIST SOIL	N/A

SDS: 52 Thyme Essential Oil

Compiled by Geoffrey Harris, Quality Control - Approved by Johndan Chilcott, Regulatory Affairs - Date: 09/07/2019 - Version: 1



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RESULTS OF PBT AND VPVB ASSESSMENT: Product fails to meet PBT/vPvB criteria.
OTHER ADVERSE EFFECTS: There is no quantitative data available about ecological effects of this product.
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Do not allow the material to enter streams, sewers or other waterways.

13: DISPOSAL CONSIDERATIONS

DISPOSAL METHODS: This product and its packaging must be disposed according to local regulations.
This product would be burnt (always if it is according with local regulations) and it does not generate ashes.

14: TRANSPORT INFORMATION

UN NUMBER: 2920
PROPER SHIPPING NAME: CORROSIVE LIQUID, FLAMMABLE, N.O.S.
TRANSPORT HAZARD CLASS(ES): 8 (3)



PACKING GROUP: II
ENVIRONMENTAL HAZARDS: Environmentally Hazardous Substance/Marine Pollutant



TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL73/78 AND THE IBC CODE: Not applicable.

SPECIAL PRECAUTIONS FOR USER:
: 274
- SPECIAL REGULATIONS: D/E
- TUNNEL RESTRICTION CODE: F-E, S-C
- EMS CODES: 1L
- LIMITED QUANTITIES:



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LIMITED**

essential oils, skincare & aromatherapy products

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).
CHEMICAL SAFETY ASSESSMENT:	No additional information available.

16: OTHER INFORMATION

HAZARD AND/OR PRECAUTIONARY STATEMENTS IN FULL:

- H226 Flammable liquid and vapour.
- H228 Flammable solid.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- 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.
- H335 May cause respiratory 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.

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.