



**AMPHORA AROMATICS
LIMITED**

essential oils, skincare & aromatherapy products

SAFETY DATA SHEET

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

PRODUCT NAME: **Calendula Absolute**

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

TELEPHONE: +44 (0)117-9087770.

PRODUCT NUMBER: **212**

CAS NUMBER: 84776-23-8

EC NUMBER: 283-949-5

INCI: Calendula Officinalis Flower Extract

BIOLOGICAL DEFINITION: Calendula Officinalis Flower Extract is an extract obtained from the flowers of the Calendula, *Calendula officinalis* L., Compositae

2: HAZARDS IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

CLASSIFICATION (EC 1272/2008):

- PHYSICAL HAZARDS: Not Classified.
- HEALTH HAZARDS: Skin Sens. 1 – H317
- ENVIRONMENTAL HAZARDS: Aquatic Chronic 2 – H411

LABEL ELEMENTS

PICTOGRAM



SIGNAL WORD:

WARNING

HAZARD STATEMENTS:

H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS:

P261 Avoid breathing vapour/ spray.
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.
P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.
P391 Collect spillage.
P501 Dispose of contents/ container in accordance with national regulations.

CONTAINS:

Linalool, Citronellal, (R)-p-mentha-1,8-diene.

SDS: **212 Calendula Absolute**

Compiled by: Johndan Chilcott, Regulatory Affairs - Approved by Woody Evans, Director – Date: 10/06/2020 - Version: 3



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3: COMPOSITION/INFORMATION ON INGREDIENTS

≤ 1.0% Linalool

CAS NUMBER: 78-70-6

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 201-134-4

Skin Irrit. 2 - H315

Eye Irrit. 2 - H319

Skin Sens. 1 - H317

≤ 1.0% Citronellal

CAS NUMBER: 106-23-0

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 203-376-6

Skin Irrit. 2 - H315

Eye Irrit. 2 - H319

Skin Sens. 1 - H317

≤ 1.0% Limonene

CAS NUMBER: 5989-27-5

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 227-813-5

Flam. Liq. 3 - H226

Skin Irrit. 2 - H315

Skin Sens. 1 - H317

Aquatic Acute 1 - H400

Aquatic Chronic 1 - H410

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

4: FIRST AID MEASURES

INHALATION:

Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Get medical attention if any discomfort continues.

INGESTION:

Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Do not induce vomiting. Get medical attention if any discomfort continues.

SKIN CONTACT:

Rinse immediately with plenty of water. Wash skin thoroughly with soap and water. Continue to rinse for at least 15 minutes and get medical attention.

EYE CONTACT:

Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

GENERAL INFORMATION:

No additional data available.

NOTES FOR THE DOCTOR:

No additional data available.

5: FIREFIGHTING MEASURES

EXTINGUISHING MEDIA RECOMMENDED:

Use as appropriate carbon dioxide (CO₂), dry chemical or foam.

UNSUITABLE EXTINGUISHING MEDIA;

Full water jet.

SPECIAL MEASURES:

In case of fire, the following can be released: carbon monoxide (CO), carbon dioxide (CO₂), smoke, soot.

EXTINGUISHING PROCEDURES:

Avoid breathing fire gases or vapours. Control run-off water by containing and keeping it out of sewers and watercourses.

SPECIAL PROTECTIVE EQUIPMENT FOR
FIREFIGHTERS:

Wear full protective clothing

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6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:

Ensure adequate ventilation of the working area, evacuate personnel to safe area, wear suitable protective equipment. Keep unnecessary and unprotected personnel away from the spillage. Take care as floors and other surfaces may become slippery. Avoid contact with skin, eyes, and clothing. Avoid inhalation of vapours. Treat the spilled material according to the instructions in the clean-up section. Wash thoroughly after dealing with a spillage.

ENVIRONMENT PRECAUTIONS:

Do not discharge into drains, water courses or onto the ground.

CLEANING UP METHODS FOR SPILLAGES:

Absorb with liquid binding material (e.g. sand, diatomaceous earth, acid, or universal binding agents). Collect in closed and suitable containers for disposal. Clean preferably with a detergent, do not use solvents. Never return spills in original containers for re-use. Wash spill site after material pick up is complete. No smoking, sparks, flames, or other sources of ignition near spillage.

7: HANDLING AND STORAGE

USAGE PRECAUTIONS:

Apply good manufacturing practice and industrial hygiene practices. Keep containers sealed when not in use. Use personal protection equipment as mentioned under "exposure controls and personal protection". Do not get in eyes, on skin, or on clothing. Use only outdoors or in a well-ventilated area. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Do not eat, drink, or smoke when using this product. Avoid release to the environment. Do not empty into drains. Wash skin thoroughly after handling.

OCCUPATIONAL HYGIENE:

Do not eat, drink, or smoke when using this product.

STORAGE PRECAUTIONS:

Keep in original containers. Keep away from food, drink, and animal feeding stuffs. Keep away from heat sources and protected from light.



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8: EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL PARAMETERS

Linalool

CAS: 78-70-6

DNEL

Workers – Dermal:	Short term systemic effects: 5mg/kg
Workers – Inhalation:	Short term systemic effects: 16.5 mg/m ³
Workers – Dermal:	Long term systemic effects: 2.5mg/kg
Workers – Inhalation:	Long term systemic effects: 2.8mg/m ³
General Population – Oral:	Short term systemic effects: 1.5mg/kg
General Population – Dermal:	Short term systemic effects: 2.5mg/kg
General Population – Inhalation:	Short term systemic effects: 4.1mg/m ³
General Population – Oral:	Long term systemic effects: 0.2mg/kg
General population – Dermal:	Long term systemic effects: 1.25mg/kg
General Population – Inhalation:	Long term systemic effects: 0.7mg/m ³

PNEC

STP:	Short term: 10mg/l
Soil:	Short term: 0.327mg/kg
Intermittent release:	Short term: 2mg/l
Fresh Water	Short term: 0.2mg/l
Marine Water:	Short term: 0.02mg/l
Sediment (Fresh Water);	Short term: 2.22mg/kg
Sediment (Marine Water):	Short term: 0.222mg/kg

Citronellal

CAS: 106-23-0

DNEL

Workers – Inhalation:	Long term systemic effects: 9mg/m ³
Workers – Dermal:	Long term systemic effects: 1.7mg/kg, bw/day
Workers – Dermal:	Long term local effects: 140mg/cm ²
General Population – Inhalation:	Long term systemic effects: 2.7mg/m ³
General Population – Dermal:	Long term systemic effects: 1mg/kg, bw/day
General Population – Dermal:	Long term local effects: 140mg/cm ²
General Population – Oral:	Long term systemic effects: 0.6 bw/day, mg/kg

PNEC

STP:	Short term: 4mg/l
Soil:	Short term: 0.027mg/kg
Fresh Water	Short term: 0.009mg/l
Intermittent release, Fresh Water:	0.087 mg/l
Marine Water:	Short term: 0.001 mg/l
Sediment (Fresh Water);	Short term: 0.159 mg/kg
Sediment (Marine Water):	Short term: 0.016mg/kg



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Phenethyl Alcohol	CAS: 60-12-8
<u>DNEL</u>	
Workers – Dermal:	Long term systemic effects: 21.2 bw/day, mg/kg
Workers – Inhalation:	Long term systemic effects: 59.9mg/m ³
General Population – Oral:	Long term systemic effects: 5.1bw/day, mg/kg
General Population – Dermal:	Long term systemic effects: 12.7 bw/day, mg/kg
General Population – Inhalation:	Long term systemic effects: 17.7 mg/m ³
<u>PNEC</u>	
STP:	Short term: 10 mg/l
Soil:	Short term: 0.164 mg/kg
Fresh Water, Intermittent release:	Short term: 2.15 mg/l
Fresh Water	Short term: 0.215mg/l
Marine Water:	Short term: 0.021 mg/l
Sediment (Fresh Water);	Short term: 1.454 mg/kg
Sediment (Marine Water):	Short term: 0.145 mg/kg

Phytol	CAS: 7541-49-3
<u>PNEC</u>	
STP:	Short term: 10mg/l
Soil:	Short term: 6.55mg/kg
Fresh Water	Short term: 55.7mg/l
Marine Water:	Short term: 55.7mg/l
Sediment (Fresh Water);	Short term: 18.6mg/kg
Sediment (Marine Water):	Short term: 18.6mg/kg

(R)-p-mentha-1,8-diene	CAS: 5989-27-5
<u>DNEL</u>	
Workers – Inhalation:	Long term systemic effects: 33.3mg/m ³
General Population – Oral:	Long term systemic effects: 4.76 mg/kg
<u>PNEC</u>	
STP:	1.8 mg/l
Soil:	0.262 mg/kg
Fresh Water	0.0054 mg/l
Marine Water:	0.00054 mg/l
Sediment (Fresh Water);	1.32 mg/kg
Sediment (Marine Water):	0.13 mg/kg



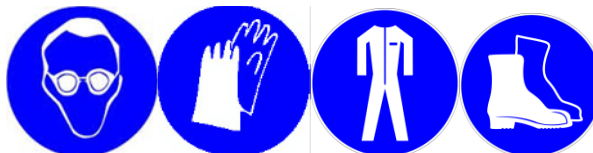
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Citronellol	CAS: 106-22-9
<u>DNEL</u>	
Workers – Inhalation:	Long term systemic effects: 161.6 mg/m ³
Workers – Inhalation:	Long term local effects: 10 mg /m ³
Workers – Inhalation:	Short term local effects: 10mg/m ³
Workers – Dermal:	Long term systemic effects: 327.4 mg/kg, bw/day
Workers – Dermal:	Short term local effects: 2.9550 mg/cm ²
General Population – Inhalation:	Long term systemic effects: 47.8 mg/m ³
General Population – Inhalation:	Long term local effects: 10mg/m ³
General Population – Inhalation:	Short term local effects: 10mg/m ³
General Population – Dermal:	Long term systemic effects: 196.4 bw/day, mg/kg
General population – Dermal:	Short term local effects: 2.950 mg/cm ²
General Population – Oral:	Long term systemic effects: 13.8 mg/kg, bw/day
<u>PNEC</u>	
STP:	Short term: 580 mg/l
Soil:	Short term: 0.004 mg/kg
Fresh Water, Intermittent release:	Short term: 0.024 mg/l
Fresh Water	Short term: 0.002 mg/l
Marine Water:	Short term: 0 mg/l
Sediment (Fresh Water);	Short term: 0.026 mg/kg
Sediment (Marine Water):	Short term: 0.003 mg/kg

Geraniol	CAS: 106-24-1
<u>DNEL</u>	
Workers – Dermal:	Long term systemic effects: 12.5 mg/kg, bw/day
Workers – Inhalation:	Long term systemic effects: 161.6 mg/m ³
General Population – Oral:	Long term systemic effects: 13.75 bw/day, mg/kg
General population – Dermal:	Long term systemic effects: 7.5 mg/kg, bw/day
General Population – Inhalation:	Long term systemic effects: 47.8 mg/m ³
<u>PNEC</u>	
STP:	Short term: 0.7 mg/l
Soil:	Short term: 0.017 mg/kg
Intermittent Release, Fresh Water:	0.108 mg/l
Fresh Water	Short term: 0.011 mg/l
Marine Water:	Short term: 0.001 mg/l
Sediment (Fresh Water);	Short term: 0.115 mg/kg
Sediment (Marine Water):	Short term: 0.011 mg/kg

PROTECTIVE EQUIPMENT:



PROCESS CONDITIONS:

ENGINEERING MEASURES:

RESPIRATORY EQUIPMENT:

HAND PROTECTION:

EYE PROTECTION:

Safety shower and eye bath.
 Provide adequate ventilation. Provide eyewash station.
 Generally unnecessary in a well-ventilated area.
 If ventilation is insufficient, respiratory protection must be worn.
 Chemical resistant gloves (PVC)
 Wear approved safety goggles.

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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:	Wear apron or protective clothing in case of splashes.
ENVIRONMENTAL EXPOSURE CONTROLS:	Avoid discharging into drains. Do not allow run-off firefighting to enter drains or water courses.

9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Viscous liquid
COLOUR:	Dark brown to orange
ODOUR:	Characteristic
RELATIVE DENSITY:	Approx. 0.965 @ 20°C
FLASH POINT (°C):	>100°C
REFRACTIVE INDEX:	Approx. 1.493 @ 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.

10: STABILITY AND REACTIVITY

REACTIVITY:	No hazardous reactions if stored and handled as prescribed / indicated
CHEMICAL STABILITY:	Stable under normal temperature and storage conditions.
POSSIBLE HAZARDOUS REACTIONS;	Under normal conditions of storage and use, no hazardous reactions will occur.
CONDITIONS TO AVOID:	Avoid heat, flames, and other sources of ignition.
INCOMPATIBLE MATERIALS:	No additional data available.
HAZARDOUS DECOMPOSITION PRODUCTS:	No dangerous decomposition products expected by intended use.

11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:	No additional data available.
SKIN CORROSION / IRRITATION:	No additional data available.
SERIOUS EYE DAMAGE / IRRITATION:	No additional data available.
RESPIRATORY OR SKIN SENSITISATION:	No additional data available.
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:	No additional data available.
PHOTO-TOXICITY:	No additional data available.
OTHER INFORMATION:	No additional data available.

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12: ECOLOGICAL INFORMATION

TOXICITY:	No additional data available.
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:	Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Do not discharge into drains or watercourses or onto the ground.
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14: TRANSPORT INFORMATION

UN No. ROAD:	3082
UN No. SEA:	3082
UN No. AIR:	3082
PROPER SHIPPING NAME:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID N.O.S (d-Limonene)

TRANSPORT HAZARD CLASS(ES):

- ADR/RID/ADN CLASS:	9
- IMDG CLASS:	9
- ICAO CLASS:	9
- ADR/RID CLASSIFICATION CODE:	M6



PACKING GROUP:

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

ENVIRONMENTAL HAZARDS:	Environmentally Hazardous Substance/Marine Pollutant
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TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL73/78 AND THE IBC CODE:	Packed and transferred according to transport regulations
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SPECIAL PRECAUTIONS FOR USER:

- EMS:	F-A, S-F
- ADR TRANSPORT CATEGORY:	3
- EMERGENCY ACTION CODE:	•3Z
- HAZARD IDENTIFICATION NUMBER (ADR/RID):	90
- TUNNEL RESTRICTION CODE:	(E)



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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).

16: OTHER INFORMATION

HAZARD AND/OR PRECAUTIONARY STATEMENTS IN FULL

H226 Flammable liquid and vapour.

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.

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.