

**01. IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY UNDERTAKING****1.1 Product Identifier**

1.1 Product Identifier	Petitgrain oil				
Biological Definition	The volatile oil obtained by steam distillation of the branches, twigs and leaves of an acclimatised variety of the Bitter Orange Tree <i>Citrus aurantium</i> L. subsp. <i>Aurantium</i>				
INCI Name	Citrus Aurantium Amara Leaf/Twig Oil.				
Synonyms Trade Names	-				
CAS Number	68916-04-1 72968-50-4	EC Number	277-143-2	EINECS No.	277-143-2

1.2 Relative identified uses of the substance or mixture and uses advised against

Flavour and fragrance.

1.3 Details of the supplier of the safety data sheet

Calmer Solutions Limited - Hadresham, Woolborough Lane, Outwood, Surrey, England RH1 5QR - Reg No 4992013

1.4 Emergency Telephone Number

In case of a medical emergency following exposure to a chemical, call NHS Direct in England or Wales 0845 46 47 or NHS 24 in Scotland 08454 24 24 (UK Only)

02. HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture**

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

Classification (EC 1272 / 2008)

Physical and Chemical Hazards Flam. Liq. 3 - H226 Human health Skin Irrit. 2 - H315; Eye Dam. 1 - H318; Skin Sens. 1 - H317 Environment Aquatic Acute 2 - H401; Aquatic Chronic 2 - H411.

GHS07

GHS09

GHS02

GHS05

None



Signal Word

Danger

Contains

Beta Pinene, Geranoil, Limonene,

Hazard Statements

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H401 Toxic to aquatic life.

H411 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.
P241 Use explosion-proof electrical/ventilating/lighting/.../equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash... 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/protective clothing/eye protection/face protection.
P302 IF ON SKIN:
P352 Wash with plenty of soap and water.
P303 IF ON SKIN (or hair):
P361 Remove/Take off immediately all contaminated clothing.
P353 Rinse skin with water/shower.
P305 IF IN EYES:
P351 Rinse cautiously with water for several minutes.
P338 Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/physician.
P321 Specific treatment (see... on this label).
P332 If skin irritation occurs:
P313 Get medical advice/attention.
P333 If skin irritation or rash occurs:
P313 Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.
P363 Wash contaminated clothing before reuse.
P370 In case of fire:
P378 Use... for extinction.
P391 Collect spillage.
P403 Store in a well-ventilated place.
P235 Keep cool.
P501 Dispose of contents/container to...

Supplementary Precautionary Statements

None Identified

2.3 Other Hazards

PBT or PvB according to Annex XIII	No additional data available.
Adverse physio-chemical properties	No additional data available.
Adverse effects on human health	No additional data available.

03. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

30 - 60 % Linalyl Acetate

CAS No: 115-95-7

EC No: 204-116-4

Classification (EC 1272/2008): Skin Irrit. 2 - H315, Eye Irrit, 2 - H319

10 - 30 % Linalool

CAS No: 78-70-6 EC No: 201-134-4

Classification (EC 1272/2008): Acute Tox. 5 - H303, Skin Irrit. 2 - H315, Aquatic Acute 3 - H402

5 - 10 % Alpha-Terpineol

CAS No: 98-55-5 EC No: 202-680-6

Classification (EC 1272/2008): Aquatic Acute 2 - H401, Eye Irrit. 1 - H319, Skin Irrit 2 - H315, Acute Tox. 5 - H303, Flam. Liq. 4 - H227

1 - 5 % Beta-Pinene

CAS No: 127-91-3 EC No: 20-872-5

Classification (EC 1272/2008): Flam. Liq. 3 - H226, Asp. Tox. 1 - H304, Skin Irrit. 2 - H315, Skin Sens. 1 - H317

1 - 5 % Geranoil

CAS No: 106-24-1 EC No: 203-377-1

Classification (EC 1272/2008): SCI 2-EDI, 1-SS 1,;H315 - H317

1 - 5 % Geranyl Acetate

CAS No: 105-87-3 EC No: 203-341-5

Classification (EC 1272/2008): Aquatic Chronic 2 - H411

1 - 5 % Limonene

CAS No: 5989-27-5 EC No: 227-813-5

Classification (EC 1272/2008): Flam. Liq. 3 - H226, Skin Irrit. 2 - H315, Skin Sens. 1 - H317, Asp. Tox. 1 - H304, Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410

1 - 5 % Myrcene

CAS No: 123-35-3 EC No: 204-622-5

Classification (EC 1272/2008): Flam. Liq. 3 - H226, Asp. Tox. 1 - H304, Aquatic Chronic 3 - H412

0 - 1 % Alpha-Pinene

CAS No: 80-56-8 EC No: 201-291-9

Classification (EC 1272/2008): Aquatic Acute 2 - H400, Chronic Aquatic 1 - H410, Skin Sens. 1 - H317, Skin Irrit 2 - H315, Asp. Tox. 1 - H304, Acute Tox. 5 - H503, Flam. Liq. 3 - H226

0 - 1 % Terpinolene

CAS No: 586-62-9 EC No: 209-578-0

Classification (EC 1272/2008): FL 3-SCI 2-SS 1B-AH 1-EH A1-EH C1;H304-H317 - H410

04. FIRST AID MEASURES

4.1 Description of first aid measures

41 Inhalation: Remove victim immediately from source of exposure. Get medical attention if any

	discomfort continues.
41 Ingestion:	Rinse mouth and drink abundant water to dilute substance. Avoid vomiting, risk of aspiration!
41 Eye:	Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention immediately. Continue to rinse.
41 Skin:	Remove contaminated clothes. Wash affected areas with copious amounts of water.
4.2 Most important symptoms and effects, both acute and delayed	
No additional data available.	
4.3 Indication of any immediate medical attention and special treatment needed	
No additional data available.	

05. FIRE FIGHTING MEASURES

5.1 Extinguishing Media
Carbon dioxide, Chemical Powder or Foam. Do not use a direct stream of water.
5.2 Special hazards arising from the product
In case of fire Carbon Monoxide and other unidentified organic compounds may be released.
5.3 Advice for firefighters
In case of insufficient ventilation use suitable respiratory equipment. Wear chemical protective clothing.

06. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
For personal protection, see section 8.
6.2 Environmental Precautions
Keep away from sewerage, surface water and groundwater. Do not allow to enter sewerage system.
6.3 Methods and material for containment and clearing up
Absorb with inert, non-combustible, inorganic absorbant material, sweep up and remove to an approved disposal container. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking.
6.4 Reference to other sections
No additional data available.

07. HANDLING AND STORAGE

7.1 Precautions for safe handling
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.
7.2 Conditions for safe storage, including and incompatibilities
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.
7.3 Specific end use(s)
No additional data available.

08. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

Ingredient Comments No exposure limits noted for ingredient(s).

8.2 Exposure controls

Protective Equipment

Goggles

Gloves

None

None

None



Process Conditions:

Provide eyewash station.

Engineering Measures:

Provide adequate ventilation.

Respiratory Equipment:

Ventilation, local exhaust, or breathing protection.

Hand Protection:

Use suitable protective gloves if risk of skin contact.

Eye Protection:

Chemical safety goggles are compulsory.

Other Protection:

Measures should be taken to prevent materials from being splashed into the eyes or on the skin. Wear eyeshields and protective clothing.

Hygiene Measures:

Remove contaminated clothing and wash the skin thoroughly with soap and water after work. Good personal hygiene practices are always advisable, especially when working with chemicals.

Personal Protection:

Use personal protection according to Directive 89/686/EEC.

Skin Protection

Avoid contact with skin. Wear suitable gloves.

Environmental

Exposure Controls:

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

09. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:

Clear liquid

Colour:

Pale yellow to yellow brown

Flash Point:

>66°C

Odour:

Characteristic

Relative Density:

0.882 to 0.893 @ 20°C

Refractive:

1.450 to 1.465 @ 20°C

Melting Point:

No additional data available.

Boiling:

No additional data available.

Vapour:

No additional data available.

Solubility:

Insoluble in water.

Auto Ignition:

No additional data available.

9.2 Other Information

No additional data available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

No additional data available.

10.2 Chemical Stability

Stable under normal temperature conditions and recommended use.

10.3 Possible hazardous reactions

No additional data available.

10.4 Conditions to avoid

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

10.5 Incompatible materials

Strong acids, alkali or oxidizers.

10.6 Hazardous Decomposition Products

In case of fire, dangerous decomposition products can be generated, such as carbon monoxide and dioxide and nitrogen fur

11. TOXOLOGICAL INFORMATION

11.1 Information on toxological effects

Acute Toxicity:	There is no toxicological data available on this product.
Respiratory or skin sensitisation:	No additional data available.
Skin corrosion/irritation:	No additional data available.
Serious Eye damage/irritation:	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.
Photo-toxicity:	No additional data available.
Aspiration hazard:	No additional data available.
Other Information:	No additional data available.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

No additional data available.

12.2 Persistence Degradability

No additional data available.

12.3 Bioaccumulation Potential

No additional data available.

12.4 Mobility in soil

Mobile.

12.5 Results of PBT and vPvB Assessment

No additional data available.

12.6 Other adverse effects

No additional data available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment 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

14.1 UN number

Road:	3082
Sea:	3082
Air:	3082

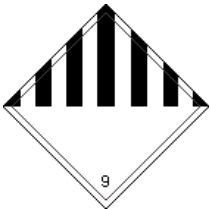
14.2 UN Proper shipping name

ENVIRONMENTAL

14.3 Transport hazard class(es)

ADR/RID/ADN – Class 9 ADR/RID/ADN – Class 9 IMDG – Class 9 ICAO – Class 9

Cl. 9_140 ENVIRONMENTAL ENVIRONMENTAL



14.4 Packing group

ADR/RID/ADN Packing group – III IMDG Packing group – III ICAO Packing group – III

14.5 Environmental Hazards

Environmentally Hazardous Substance/Marine Pollutant

Umwelt_140 ENVIRONMENTAL ENVIRONMENTAL



14.6 Special precautions for users

Emergency Action Code 3Z Hazard No. (ADR) 90 Environmentally hazardous substance; miscellaneous dangerous substances
Tunnel Restriction Code (E)

14.7 Transport in bulk according to Annex II of MARLPOL73/78 and the IBC Code

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance

Statutory Instruments The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716). Guidance Notes Workplace Exposure Limits EH40. CHIP for everyone HSG(108). 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.

15.2 Chemical safety assessment

No additional information available.

16. OTHER INFORMATION

Hazard or precaution	H318 Causes serious eye damage. H319 Causes serious eye irritation. H315 Causes skin irritation. H226 Flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H317 May cause an allergic skin reaction. H411 Toxic to aquatic life with long lasting effects. H401 Toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H400 Very toxic to aquatic life.
Other Information::	None
Revision Date:	4/1/2022
Reason:	New SDS
Revision Number:	2

Disclaimer: This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy themselves as to the suitability of such information for his own particular use.