

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

1.1 Product Identifier	Grapefruit Oil White				
Biological Definition	Citrus Paradisi Peel Oil is the volatile oil expressed from the peel of the Grapefruit, Citrus paradisi, Rutaceae.				
INCI Name	Citrus Paradisi Peel Oil				
Synonyms Trade Names	-				
CAS Number	8016-20-4	EC Number	289-904-6	EINECS No.	289-904-6

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

Relevant uses: Perfumery, cosmetics, food

**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 displayed in Section 16.

Classification (EC 1272 / 2008)

Flammable Liquid, Hazard Category 3 - H226 Skin Corrosion / Irritation Category 2 - H315 Sensitization - Skin Category 1 - H317 Aspiration Hazard Category 1 - H304 Hazardous to the aquatic environment - Acute hazard, Category 1 (Aquatic Acute 1, H400). Hazardous to the Aquatic Environment – Aquatic Chronic Category 1 - H410

GHS02

GHS07

GHS08

GHS09

None



Signal Word

Danger

Contains

(R)-p-mentha-1,8-diene, Myrcene,

**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.

## Precautionary Statements

P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301 IF SWALLOWED:  
P310 Immediately call a POISON CENTER or doctor/physician.  
P303 IF ON SKIN (or hair):  
P361 Remove/Take off immediately all contaminated clothing.  
P353 Rinse skin with water/shower.  
P331 Do NOT induce vomiting.  
P391 Collect spillage.

## Supplementary Precautionary Statements

None Identified

## 2.3 Other Hazards

PBT or PvB according to Annex XIII	The substance does not satisfy the PBT or vPvP criteria in accordance with
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

**80 - 95 % 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

**40 - 93 % Hydrocarbons**

CAS No: Not Defined EC No: Not Defined

Classification (EC 1272/2008): Acute Tox. 4 - H302 + H312

**0 - 3 % 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

## 04. FIRST AID MEASURES

### 4.1 Description of first aid measures

41 Inhalation:	Remove from exposure area to fresh air. Obtain medical advice if irritation persists.
41 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. Seek medical attention immediately, showing the label. If swallowed accidentally, do not allow to drink, do not induce vomiting and transfer to hospital immediately by ambulance. Show the label to the doctor.
41 Eye:	Flush with plenty of water and seek medical advice.

<b>4.1 Skin:</b>	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.
<b>4.2 Most important symptoms and effects, both acute and delayed</b>	
No additional data available.	
<b>4.3 Indication of any immediate medical attention and special treatment needed</b>	
No additional data available.	

## 05. FIRE FIGHTING MEASURES

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

## 06. ACCIDENTAL RELEASE MEASURES

<b>6.1 Personal precautions, protective equipment and emergency procedures</b>
Consult the safety measures listed under headings 7 and 8. For non first aid worker Avoid any contact with the skin and eyes. For first aid worker First aid workers will be equipped with suitable personal protective equipment (See section 8).
<b>6.2 Environmental Precautions</b>
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. If the product contaminates waterways, rivers or drains, alert the relevant authorities in accordance with statutory procedures. Use drums to dispose of collected waste in compliance with current regulations (see section 13).
<b>6.3 Methods and material for containment and clearing up</b>
Remove ignition sources. Ensure adequate ventilation. Absorb with inert, non-combustible, inorganic absorbent material sweep up and remove to an approved disposal container. Clean preferably with a detergent, do not use solvents.
<b>6.4 Reference to other sections</b>
No additional data available.

## 07. HANDLING AND STORAGE

<b>7.1 Precautions for safe handling</b>
Requirements relating to storage premises apply to all facilities where the substance is handled. Individuals with a history of skin sensitisation should not, under any circumstance, handle this substance. Always wash hands after handling. Remove and wash contaminated clothing before re-using. Remove contaminated clothing and protective equipment before entering eating areas. Fire prevention:
<b>7.2 Conditions for safe storage, including and incompatibilities</b>
7.2 Conditions for safe storage, including any incompatibilities
<b>7.3 Specific end use(s)</b>
7.3 Specific end use(s)

## 08. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control Parameters

No additional data available.

### 8.2 Exposure controls

Protective Equipment

Goggles

Gloves

None

None

None



Process Conditions:

Provide eyewash station.

Engineering Measures:

Provide adequate ventilation.

Respiratory Equipment:

Not necessary in adequate ventilation of working area. Avoid inhalation of vapours.

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. Recommended properties:- Impervious gloves in accordance with standard EN374

Eye Protection:

Avoid contact with eyes. Use eye protectors designed to protect against liquid splashes. Before handling, wear safety goggles in accordance with standard EN166.

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

Hygiene Measures:

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.

Personal Protection:

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

Skin Protection

Use personal protective equipment that is clean and has been properly maintained. Store personal protective equipment in a clean place, away from the work area. Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

Environmental Exposure Controls:

Wear protective clothing to avoid all skin contact.

## 09. PHYSICAL AND CHEMICAL PROPERTIES

## 9.1 Information on basic physical and chemical properties

Appearance:	Liquid, yellow to orange.
Colour:	Yellow to orange.
Flash Point:	43
Odour:	Characteristic – citrus, grapefruit.
Relative Density:	0.833 – 0.860 @ 20°C
Refractive:	1.460 to 1.480 @ 20°C
Melting Point:	No additional data available.
Boiling:	~170.0 ± 10.0 @ 1029 hPa
Vapour:	186.4 Pa @25°C
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

Appearance

### 10.2 Chemical Stability

Odour

### 10.3 Possible hazardous reactions

Flash Point (°C)

### 10.4 Conditions to avoid

Melting Point (°C)

### 10.5 Incompatible materials

Vapour Pressure

### 10.6 Hazardous Decomposition Products

Auto-ignitiontemperature (°C)

## 11. TOXOLOGICAL INFORMATION

### 11.1 Information on toxological effects

Acute Toxicity:	HYDROCARBONS Oral route: LD50 = 800 mg/kg Dermal route: LD50 = 1300 mg/kg
Respiratory or skin sensitisation:	No additional data available.
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. May cause an allergic reaction by skin contact.
Serious Eye damage/irritation:	No additional data available.
Germ Cell Mutagenicity:	No additional data available.
Carcinogenicity:	Monograph(s) from the IARC (International Agency for Research on Cancer): 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.
Photo-toxicity:	Aspiration toxicity includes severe acute effects such as chemical pneumonia, varying degrees of pulmonary injury or death following aspiration. May be fatal if swallowed and enters airways. Aspiration toxicity includes severe acute effects such as chemical pneumonia, varying degrees of pulmonary injury or death following aspiration.
Aspiration hazard:	No additional data available.
Other Information:	No additional data available.

## 12. ECOLOGICAL INFORMATION

<b>12.1 Toxicity</b>
Very toxic to aquatic life with long lasting effects. The product must not be allowed to run into drains or waterways.
<b>12.2 Persistence Degradability</b>
No additional data available.
<b>12.3 Bioaccumulation Potential</b>
No additional data available.
<b>12.4 Mobility in soil</b>
No additional data available.
<b>12.5 Results of PBT and vPvB Assessment</b>
No additional data available.
<b>12.6 Other adverse effects</b>
Do not discharge into the environment especially not into waterways, sewers and the sea.

## 13. DISPOSAL CONSIDERATIONS

<b>13.1 Waste treatment methods</b>
Proper waste management of the substance and/or its container must be determined in accordance with Directive 2008/98/EC. 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

<b>14.1 UN number</b>
Road: UN 1169
Sea: UN 1169
Air: UN 1169

## 14.2 UN Prpoer shipping name

UN1169 = Extrac

## 14.3 Transport hazard class(es)

ADR/RID/ADN Class: 3 Flammable Liquid. IMDG Class: 3 Flammable Liquid. ICAO Class/Division: 3 Flammable Liquid. Transport Labels

Cl. 3\_140\_s

UN1169 = Extrac

UN1169 = Extrac



## 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

UN1169 = Extrac

UN1169 = Extrac



## 14.6 Special precautions for users

ADR/RID Class	Code	Pack gr.	Label	Ident. 3	F1	III	3	30IMDG Class	2° Label	
Pack gr.	LQ	EMS	Provis.	EQ 3	-	III	5 L	F-E,S-D	223	
955	E1 IATA Class	2° Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ	
3	-	III	355	60 L	366	220 L	A3	E13	-	III
Y344	10 L	-	-	A3	E1 For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG. For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.					

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

No additional data available.

## 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	H226 Flammable liquid and vapour. H302 Harmful if swallowed.
----------------------	---

H304 May be fatal if swallowed and enters airways.  
H312 Harmful in contact with skin.  
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.

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.