



The Soap Kitchen (2011) Ltd  
Unit 8, Caddsdwn Industrial Park, Clovelly Road,  
Bideford, Devon, EX39 3DX, United Kingdom





Email: [enquiries@thesoapkitchen.co.uk](mailto:enquiries@thesoapkitchen.co.uk)  
Call: +44 (0) 1237 420 872

## MATERIAL SAFETY DATA SHEET

### 01. IDENTIFICATION OF THE SUBSTANCE/PREPARATION & THE COMPANY/UNDERTAKING

1.1 Product Identifier					
Product Name		Orange Essential Oil 5 Fold		WHC823	
Biological Definition		Obtained by mechanical expression of the ripe peels of the fruit of <i>Citrus sinensis</i> (L), (syn: Citrus aurantium dulcis), <i>Rutaceae</i> followed by fractional distillation to selectively remove the monoterpene fraction in part.			
INCI Name		Citrus Aurantium Dulcis Peel Oil Expressed			
Synonyms & Trade Names		-			
CAS-No	8028-48-6	EC No.	232-433-8	EINECS No.	232-433-8
1.2 Relative identified uses of the substance or mixture and uses advised against					
	Suitable for use in cosmetics, fragrances, flavourings and professional applications only.				
1.3 Details of the supplier of the safety data sheet					
The Soap Kitchen, Unit 8 Caddsdwn Industrial Park, Clovelly Road, Bideford, EX39 3DX					
1.4 Emergency Tel. No.		+ 44 (0) 1260 222 943			

### 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)	
Physical hazards:	Flam. Liq. 3 - H226
Health hazards:	Asp. Tox. 1- H304, Skin Irrit. 2 - H315, Skin Sens. 1- H317
Environmental hazards :	Aquatic Chronic 2 - H411*
*See section 16 – Other Information	
2.2 Label Elements	
Label in accordance with (EC) No 1272/2008	
GHS02 	GHS08 
GHS07 	GHS09 
Signal Word	Danger.
Contains	Limonene, 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. H411: Toxic to aquatic life with long lasting effect.	

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## Precautionary Statements

P210: Keep away from heat, sparks, open flames and hot surfaces. - No smoking.  
P241: Use explosion-proof electrical, ventilating and lighting equipment.  
P261: Avoid breathing vapours/spray.  
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+P313: If skin irritation or rash occurs: Get medical advice/attention.  
P370+P378: In case of fire: Use carbon dioxide, dry chemical, foam to extinguish.

## Supplementary Precautionary Statements

P264: Wash hands and exposed skin thoroughly after handling.

## 2.3 Other Hazards

PBT or vPvB according to Annex XIII	The product is not PBT / vPvB.
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

#### ≤90.0% Limonene

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

Classification (EC 1272/2008) 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% Decanal

CAS No: 112-31-2 EC No: 203-957-4

Classification (EC 1272/2008) Eye Irrit. 2 - H319, Aquatic Chronic 3 - H412

#### ≤2.3% Linalool

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

Classification (EC 1272/2008) Skin Irrit. 2 - H315, Skin Sens. 1B - H317, Eye Irrit. 2 - H319

#### ≤1.2% Citral

CAS No: 5392-40-5 EC No: 226-394-6

Classification (EC 1272/2008) Skin Irrit. 2 - H315, Skin Sens. 1B - H317, Eye Irrit. 2 - H319

#### ≤1.0% Citronellal

CAS No: 106-23-0 EC No: 203-376-6

Classification (EC 1272/2008) Skin Irrit. 2 - H315, Skin Sens. 1B - H317, Eye Irrit. 2 - H319

#### ≤1.0% Myrcene

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

Classification (EC 1272/2008) 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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## 04. FIRST AID MEASURES

4.1 Description of first aid measures	
Inhalation	Remove from exposure area to fresh air. 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 clothing immediately and wash skin with soap and 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. Continue to rinse.
4.2 Most important symptoms and effects, both acute and delayed	
Inhalation: can cause headaches. Contact: can cause bloodshot eyes. Allergic contact dermatitis. The severity of the symptoms will vary depending of the concentration and the length of exposure.	
4.3 Indication of any immediate medical attention and special treatment needed	
Treat symptomatically.	

## 05. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media	
Extinguish with the following media: carbon dioxide, dry chemical, foam. Unsuitable extinguishing media: do not use water jet as an extinguisher, as this may scatter and spread fire.	
5.2 Special hazards arising from the product	
A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health. Do not breathe in smoke. Thermal decomposition or combustion products may include the following substances: Carbon dioxide (CO <sub>2</sub> ), Carbon monoxide (CO), other toxic gases. Containers close to fire should be removed or cooled with water.	
5.3 Advice for firefighters	
Standard procedure for chemical fires. Spray extinguishing media to base of flames. 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.	

## 06. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures	
Wear protective clothing as described in Section 8 of this safety data sheet. Handle the product using protective gloves resistant to the chemicals exposed. Avoid contact with skin and inhalation of its vapours. Maintain adequate ventilation in the working area after spilling.	
6.2 Environmental Precautions	
Do not discharge into drains, water courses or onto the ground. Keep away from surface and ground water.	
6.3 Methods and material for containment and cleaning up.	

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Remove ignition sources. Ensure adequate ventilation. Absorb with inert, non-combustible, inorganic absorbent material, sweep up and remove to an approved disposal container. Dispose of according to current local authority guidelines. Wash spill site after removal with a detergent.

## 6.4 Reference to other sections

See sections 4, 7, 8 & 13.

## 07. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Avoid contact with skin, eyes and clothing. Avoid breathing vapours.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in tightly-closed, original container in a dry, cool and well-ventilated area, away from potential sources of ignition and protected from light.

### 7.3 Specific end use(s)

Flavours, Fragrances: Use in accordance with good manufacturing and industrial hygiene practices.

## 08. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

No additional data available.

### 8.2 Exposure controls

#### Protective Equipment



Process Conditions	Provide eyewash station.
Engineering Measures	Provide adequate ventilation. Avoid static discharges in working area.
Respiratory Equipment	Avoid breathing vapours. Respiratory equipment should not be necessary with adequate ventilation.
Hand Protection	Avoid all skin contact. Wear chemical resistant gloves (PVC) tested to EN374.
Eye Protection	Avoid contact with eyes. Wear approved safety goggles with built in frame tested to EN166.
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 protective clothing to avoid skin contact.
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	Liquid, yellow to red-orange.
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Colour	Yellow to red-orange.
Odour	Characteristic.
Relative Density	Approx. 0.865 @ 20°C
Flash Point (°C)	~ 49.0
Refractive Index	Approx. 1.475 @ 20°C
Melting Point (°C)	No additional data available.
Boiling Point (°C)	~ 170°C ± 10°C @ 1026hPa
Vapour Pressure	186.4 Pa @25°C
Solubility in Water @20°C	Insoluble in water. Soluble in alcohol and other oils.
Auto-ignition temperature (°C)	~ 235.0

## 9.2 Other information

No additional data available.

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

Presents no significant reactivity hazards, by itself or in contact with water. Stable under normal temperature and storage conditions and recommended use.

### 10.2 Chemical stability

Stable under normal temperature and storage conditions and recommended use.

### 10.3 Possible hazardous reactions

Not expected under normal conditions of use.

### 10.4 Conditions to Avoid

Avoid heat, sparks and open flames.

### 10.5 Incompatible materials

Avoid contact with strong acids, alkalis and oxidising agents.

### 10.6 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. TOXOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

Acute Toxicity	Not classified.
Skin corrosion / irritation	Causes skin irritation.
Serious eye damage / irritation	Not classified.
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.

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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

<b>12.1 Toxicity</b>
Toxic to aquatic life with long lasting effects. (* see section 16 – Other information) The product must not be allowed to run into drains or waterways.
<b>12.2 Persistence &amp; degradability</b>
Readily biodegradable.
<b>12.3 Bioaccumulation Potential</b>
Readily biodegradable.
<b>12.4 Mobility in soil</b>
Based on the ready biodegradability of the substance, simulation tests in surface water, sediment and soil are not required.
<b>12.5 Results of PBT and vPvB Assessment</b>
This substance is not classified as PBT/vPvB.
<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>
Do not release into the environment. Collect waste into suitable containers and contact hazardous chemical disposal company. Containers must be completely empty before disposal. Dispose of in compliance with all local and national regulations.

## 14. TRANSPORT INFORMATION

14.1 UN number		
UN No. Road	UN 1169	
UN No. SEA	UN 1169	
UN No. AIR	UN 1169	
14.2 UN proper shipping name		
Extracts, Aromatic, Liquid.		
14.3 Transport hazard class(es)		
ADR/RID Class:	3	
IMDG Class:	3	
ICAO/IATA Class:	3	
Transport Labels		

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## 14.4 Packing group

ADR/RID Packing group	III
IMDG Packing group	III
ICAO/IATA Packing group	III

## 14.5 Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant.



## 14.6 Special precautions for user

See sections 6 – 8.  
Tunnel Restriction Code (D/E)  
IMDG EMS F-E, S-D

## 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code

No additional data available.

## 15. REGULATORY INFORMATION

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

#### 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 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.
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	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 effect.
Other Information	*REACH dossier information. The toxicity for aquatic organisms was assessed in WAF tests. These studies for algae, Daphnia and fish are considered valid studies and based on these toxicity studies and the criteria of the CLP Regulation; the product is not classified for Aquatic Acute toxicity. Orange Oil is to be classified as Aquatic Chronic Category 2. It was concluded that the presence of other constituents in the complex substance influences the behaviour and effect of the constituent Limonene.
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