





# Safety Data Sheet

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

1.1 Product Identifier					
Product Name		Mandarin Oil Red Organic			
Biological Definition		Citrus Nobilis Peel Oil Expressed is an essential oil expressed from the epicarps of the Mandarin, <i>Citrus nobilis</i> , <i>Rutaceae</i>			
INCI Name		Citrus Nobilis Peel Oil Expressed			
Synonyms & Trade Names					
CAS-No	84929-38-4	EC No.	284-521-0	EINECS No.	284-521-0
1.2 Relative identified uses of the substance or mixture and uses advised against					
Relevant Uses: Odour agent / flavour agent – ingredient for industrial manufacturing. Uses advised against: Not for personal use in this form or concentration.					
1.3 Details of the supplier of the safety data sheet					
1.4 Emergency Tel. No.		01572 820267			

## 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)	
Flam. Liq. 3 (H226) Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Aqu. Chron. 1 (H410)	
2.2 Label Elements	
Label in accordance with (EC) No 1272/2008	
GHS08 	GHS09 
GHS07 	GHS02 
Signal Word	Danger
Contains	Limonene, Y-terpinene, alpha-Pinene, 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.

P241	Use explosion-proof electrical/ventilating/lighting/.../equipment
P262	Do not get in eyes, on skin, or on clothing
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing and eye/face protection.
P301+310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P303+361+353	IF ON SKIN 9or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P331	Do NOT induce vomiting.
P405	Store locked up.
P501	Dispose of contents/container to regional, national regulation.
<b>Supplementary Precautionary Statements</b>	
None	
<b>2.3 Other Hazards</b>	
PBT or vPvB 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

<b>3.2 Mixtures</b>	
<b>74% Limonene</b> CAS-No.: 5989-27-5 EC No.: 227-813-5	
Classification (EC 1272/2008) Flam. Liq. 3 – H226, Skin Irrit 2 – H315 Asp Tox. 1 – H304, Skin Sens. 1 – H317 Aquatic Acute 1 – H400, Aquatic Chronic 1 – H410	
<b>18% Y-terpinene</b> CAS-No 99-85-4, EC 202-794-6	
Classification (EC 1272/2008); Flam. Liq. 3 – H226, Asp Tox. 1 – H304;	
<b>2% alpha-Pinene</b> CAS-No.: 80-56-8 EC No.: 201-291-9	
Classification (EC 1272/2008) Flam. Liq. 3 - H226, Skin Irrit. 2 - H315, Skin Sens. 1 - H317, Asp. Tox. 1 - H304	
<b>2% Myrcene (7-methyl-3-methylenoocta-1,6-diene)</b> CAS-No.: 123-35-3 EC No.: 204-622-5	
Classification (EC 1272/2008) Flam. Liq. 3 - H226, Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Asp. Tox. 1 - H304	

### 04. FIRST AID MEASURES

<b>4.1 Description of first aid measures</b>	
Inhalation	Move to fresh air for at least 15mins, in case of complaints seek medical attention.
Ingestion	Ask for IMMEDIATE medical assistance. If swallowed rinse mouth. Do NOT induce vomiting.
Skin Contact	After contact with skin, wash immediately with plenty of water and soap. Remove contaminated clothing immediately. Seek medical attention if necessary.
Eye Contact	In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.
<b>4.2 Most important symptoms and effects, both acute and delayed</b>	
Symptoms : Inhalation can cause slight headache – contact: can cause bloodshot eyes – can cause slight skin rash.	
Acute and delayed effects : No post-disorder effects are reported	
<b>4.3 Indication of any immediate medical attention and special treatment needed</b>	

Immediate medical assistance : See point 4.1  
 Immediate / Special treatment : See point 4.1  
 First aid specific means : Eye wash fountain / safety shower should be available in the work area.

## 05. FIRE-FIGHTING MEASURES

<b>5.1 Extinguishing Media</b>
Foam Extinguishing powder Carbon dioxide (CO <sub>2</sub> ) Avoid full water jet
<b>5.2 Special hazards arising from the product</b>
Vapours may form explosive mixture with air – in case of fire, the following can be released: Carbon monoxide, Carbon dioxide, smoke and soot..
<b>5.3 Advice for firefighters</b>
Move undamaged containers from immediate hazard area if it can be done safely. Use suitable breathing apparatus. Regard to self protection

## 06. ACCIDENTAL RELEASE MEASURES

<b>6.1 Personal precautions, protective equipment and emergency procedures</b>
For non emergency personnel: In an emergency (ie unintentional important release of the product in enclosed space) respiratory protection (Gas filter A. Colour code brown: consider the maximum duration of wear) must be worn. Use insulating device for respiratory protection with an independent air supply in circumstances which are unclear – use adequate protection that is solvent resistant: security shoes, bodysuit, gloves and protective goggles (see point 8)  For emergency responders: As per non emergency personnel  Emergency procedures: Remove any ignition source and ensure adequate ventilation in working areas following accidental release.
<b>6.2 Environmental Precautions</b>
Do not allow to enter into surface water or drains. Cover drains. Prevent spread over a wide area (e.g. by containment or oil barriers).
<b>6.3 Methods and material for containment and cleaning up.</b>
Keep away from heat and use non-combustible absorbing sawdust (sand, specific binder). Refer to point 13 for the appropriate methods of waste treatment.
<b>6.4 Reference to other sections</b>
See protective measures under point 4, 8 and 13.

## 07. HANDLING AND STORAGE

<b>7.1 Precautions for safe handling</b>
Provide earthing of containers, equipment, pumps and ventilation facilities. Take precautionary measures against static discharges. Wear personal protective clothing (see chapter 8). Do not breathe gas/fume/vapour/spray Use only in well-ventilated areas. When using do not eat, drink, smoke, sniff.
<b>7.2 Conditions for safe storage, including any incompatibilities</b>

Keep container tightly closed.

### 7.3 Specific end use(s)

No additional data available.

## 08. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8. Control parameters

1

No additional data available.

### 8. Exposure controls

2

#### Protective Equipment



Process Conditions	Technical measures and the application of suitable work processes have priority over personal protection equipment.
Engineering Measures	No additional data available.
Respiratory Equipment	If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.
Hand Protection	Use solvent and acid resistant protection gloves according to EN 374. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. Take recovery periods for skin regeneration.
Eye Protection	Use protection goggles according to EN166.
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	Protective work clothing solvent resistant (should be checked regularly).
Environmental Exposure Controls	Avoid discharging into drainage water. Only remove via authorised companies.

## 09. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance	liquid
Colour	Orange - red
Odour	Citrus - mandarin
Relative Density	0.841- 0.851 @ 20°C
Flash Point (°C)	42°C
Refractive Index	1.460 - 1.480 @ 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.

**9.2 Other information**

No additional data available.

**10. STABILITY AND REACTIVITY****10.1 Reactivity**

No dangerous reactions known if used in accordance with storage and handling conditions.

**10.2 Chemical stability**

Product is stable at room temperature.

**10.3 Possible hazardous reactions**

No dangerous reactions expected if used according to specifications.

**10.4 Conditions to Avoid**

Temperatures more than room temperature will benefit the transfer from liquid to vapour phase and formation of explosive atmospheres.

Storing the product in open containers will benefit the formation of peroxides and derogate the quality.

**10.5 Incompatible materials**

Highly oxidising agents

**10.6 Hazardous Decomposition Products**

No dangerous decomposition products known.

**11. TOXOLOGICAL INFORMATION****11.1 Information on toxicological effects**

Acute Toxicity	Acute toxicity LD50 5g/kg (Source RIFM)
Skin corrosion / irritation	Hazard statement H315 causes skin irritation
Serious eye damage / irritation	Not classified as irritating to the eye (Source RIFM)
Respiratory or skin sensitisation	Hazard statement H317 may cause an allergic skin reaction.
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	Hazard statement H304 may be fatal if swallowed and enters airways.
Photo-toxicity	No additional data available
Other Information	No additional data available

**12. ECOLOGICAL INFORMATION****12.1 Toxicity**

Hazard statement H410 very toxic to aquatic life with long lasting effects.

**12.2 Persistence & degradability**

This substance to be considered as a readily biodegradable substance, based on its ready biodegradability, oil does not fulfil the criteria for persistence.

**12.3 Bioaccumulation Potential**

Hazard statement H410 very toxic to aquatic life with long lasting effects.

**12.4 Mobility in soil**

No additional data available.

**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**

Hazardous waste according to waste regulation  
 Dispose according to legislation.  
 Delivery to an approved waste disposal company.  
 Non-contaminated packages may be recycled.

**14. TRANSPORT INFORMATION****14.1 UN number**

UN No. Road 1169

UN No. SEA 1169

UN No. AIR 1169

**14.2 UN proper shipping name**

EXTRACTS, AROMATIC, LIQUID

**14.3 Transport hazard class(es)**

ADR/RID/ADN Class: 3

ADR/RID/ADN Class: 3

IMDG Class 3

ICAO Class/Division

Transport Labels



Tarrif Number 3301192000

**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



<b>14.6 Special precautions for user</b>
See section 6 to 8.
<b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code</b>
Packed and transferred according to transport regulations.

**15. REGULATORY INFORMATION**

<b>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture</b>
<p>Statutory Instruments The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).</p> <p>Guidance Notes Workplace Exposure Limits EH40. CHIP for everyone HSG(108).</p> <p>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.</p>
<b>15.2 Chemical safety assessment</b>
No additional information available.

**16. OTHER INFORMATION**

Hazard and/or Precautionary Statements in Full	H226 H304 H315 H317 H410	Flammable liquid and vapour. May be fatal if swallowed and enters airways. Causes skin irritation May cause an allergic skin reaction Very toxic to aquatic life with long lasting effects.
Other Information	None	
Revision Date	21/07/15	
Reason for revision	New SDS	
Rev No/Repl, SDS Generated	01	

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