





## MATERIAL SAFETY DATA SHEET

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

<b>1.1 Product Identifier</b>					
Product Name		Chamomile Maroc Essential Oil			
Biological Definition		Ormenis Multicaulis Oil is the volatile oil obtained from the herb Moroccan Chamomile, <i>Ormenis multicaulis</i> , <i>Compositae</i> .			
INCI Name		Ormenis multicaulis oil			
Synonyms & Trade Names		Chamomile Oil Maroc			
CAS-No	92202-02-3	EC No.	296-034-0	EINECS No.	296-034-0
<b>1.2 Relative identified uses of the substance or mixture and uses advised against</b>					
Cosmetics and fragancing					
<b>1.3 Details of the supplier of the safety data sheet</b>					
NTM UK LTD, 69 Bethel Street, Norwich, Norfolk, United Kingdom NR2 1NR					
<b>1.4 Emergency Tel. No.</b>			+44(0)1603 610883		

### 02. HAZARDS IDENTIFICATION

<b>2.1 Classification of the substance or mixture</b>			
The Full Text for all Hazard Statements is displayed in Section 16.			
Classification (EC 1272/2008)			
Flammable liquid, Category 3 (Flam. Liq. 3, H226). Skin irritation, Category 2 (Skin Irrit. 2, H315). Serious eye damage, Category 1 (Eye Dam. 1, H318). Skin sensitisation, Category 1 (Skin Sens. 1, H317). Aspiration hazard, Category 1 (Asp. Tox. 1, H304). Hazardous to the aquatic environment - Chronic hazard, Category 2 (Aquatic Chronic 2, H411). Chronic			
<b>2.2 Label Elements</b>			
Label in accordance with (EC) No 1272/2008			
GHS07	GHS08	GHS09	GHS02
			
Signal Word		Danger	

Contains	EC 201-291-9 ALPHA-PINENE X 601-029-00-7 (R)-P-MENTHA-1,8-DIENE EC 203-377-1 GERANIOL EC 204-622-5 MYRCENE EC 204-262-9 BENZYL SALICYLATE EC 204-872-5 B-PINENE
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<b>Hazard Statements</b>	
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. H318 Causes serious eye damage. H411 Toxic to aquatic life with long lasting effects	

<b>Precautionary Statements</b>	
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 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P331 Do NOT induce vomiting	

<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

3.1 Substances	
<b>35-45% THUJOPSENE</b>	CAS-No: 470-40-6 EC No: 207-426-8 Classification (EC 1272/2008): Asp. Tox. 1 (H304), (EFFA) Aquatic Acute 1 (H400) (EFFA), Aquatic Chronic 1, (H410) (EFFA)
<b>10.0 – 25.0% Alpha Pinene X</b>	CAS: 80-56-8, EC: 201-291-9 Classification (EC 1272/2008) Asp. Tox. 1, H304, Flam. Liq. 3, H226, Skin Irrit. 2, H315, Skin Sens. 1, H317
<b>10.0 - 25.0% (R)-P-Mentha-1,8-Diene</b>	CAS: 5989-27-5, EC: 227-813-5 Classification (EC 1272/2008) Flam. Liq. 3, H226, Skin Irrit. 2, H315, Skin Sens. 1, H317, Aquatic Acute 1, H400 M Acute = 1, Aquatic Chronic 1, H410, M Chronic = 1
<b>2.5 – 10.0% Thujone</b>	CAS: 546-80-5, EC: - Classification (EC 1272/2008) Acute Tox. 4, H302
<b>2.5 – 10.0% Geraniol</b>	CAS: 106-24-1, EC: 203-377-1 Classification (EC 1272/2008) Eye Dam. 1, H318, Skin Irrit. 2, H315, Skin Sens. 1, H317
<b>2.5 – 10.0% Camphor L</b>	CAS: 76-22-2, EC: 200-945-0 Classification (EC 1272/2008) –
<b>0.0 – 2.5% Myrcene</b>	CAS: 123-35-3, EC: 204-622-5 Classification (EC 1272/2008) Asp. Tox. 1, H304, Eye Irrit. 2, H319, Flam. Liq. 3, H226, Skin Irrit. 2, H315
<b>0.0 – 2.5% Benzyl Salicylate</b>	CAS: 118-58-1, EC: 204-262-9 Classification (EC 1272/2008) Aquatic Chronic 2, H411, Skin Sens. 1, H317
<b>0.0 – 2.5% Geranyl Acetate</b>	CAS: 105-87-3, EC: 203-341-5 Classification (EC 1272/2008) Aquatic Chronic 2 - H411
<b>0.0 – 2.5% B-Pinene</b>	CAS: 127-91-3, EC: 204-872-5 Classification (EC 1272/2008) Asp. Tox. 1, H304, Flam. Liq. 3, H226, Skin Irrit. 2, H315, Skin Sens. 1, H317
<b>0.0 – 2.5% Camphene</b>	CAS: 79-92-5, EC: 201-234-8 Classification (EC 1272/2008) Eye Irrit. 2, H319, Aquatic Acute 1, H400 M Acute = 1, Aquatic Chronic 1, H410 M Chronic = 1

### 04. FIRST AID MEASURES

4.1	Description of first aid measures
Inhalation	Move the exposed person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.
Ingestion	Ingestion may cause nausea and vomiting. Seek medical attention if irritation or symptoms persist. Do not induce vomiting.
Skin Contact	Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.
Eye Contact	Remove victim immediately from source of exposure. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.
4.2	<b>Most important symptoms and effects, both acute and delayed</b> No additional data available.
4.3	<b>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>	Do not use a direct stream of water to extinguish. Use: Powder. Carbon dioxide (CO <sub>2</sub> ).
<b>5.2 Special hazards arising from the product</b>	Specific hazards: When heated and in case of fire, toxic vapours/gases may be formed.
<b>5.3 Advice for firefighters</b>	Protective equipment for fire-fighters: Wear Self-contained breathing apparatus. Wear chemical protective clothing.

## 06. ACCIDENTAL RELEASE MEASURES

<b>6.1 Personal precautions, protective equipment and emergency procedures</b>	Wear protective clothing as described in Section 8 of this safety data sheet.
<b>6.2 Environmental Precautions</b>	Do not discharge into drains, water courses or onto the ground.
<b>6.3 Methods and material for containment and cleaning up.</b>	Absorb with inert, non-combustible, inorganic absorbent material, sweep up and remove to an approved disposal container. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking.
<b>6.4 Reference to other sections</b>	No additional data available.

## 07. HANDLING AND STORAGE

### 7.1 Precautions for safe handling




Always wash hands after handling.  
Remove and wash contaminated clothing before re-using.  
Remove contaminated clothing and protective equipment before entering eating areas.  
Emergency showers and eye wash stations will be required in facilities where the mixture is handled constantly.

**Fire prevention:**  
Handle in well-ventilated areas.  
Prevent the formation of flammable or explosive concentrations in air and avoid vapour concentrations higher than the occupational exposure limits.  
Never inhale this mixture.  
Prevent the accumulation of electrostatic charges with connections to earth.  
The mixture can become electrostatically charged: always earth during decanting operations.  
Wear antistatic shoes and clothing and floors should be electrically conductive.  
Use the mixture in premises free of naked flames or other sources of ignition and ensure that electrical equipment is suitably protected.  
Keep packages tightly closed and away from sources of heat, sparks and naked flames.  
Do not use tools which may produce sparks. Do not smoke.  
Prevent access by unauthorised personnel.

**Recommended equipment and procedures:**  
For personal protection, see section 8.  
Observe precautions stated on label and also industrial safety regulations.  
Avoid eye contact with this mixture at all times.

	<p><b>Prohibited equipment and procedures:</b>          No smoking, eating or drinking in areas where the mixture is used.          Never open the packages under pressure.</p>
<b>7.2</b>	<p><b>Conditions for safe storage, including any incompatibilities</b></p> <p>Storage          Keep the container tightly closed in a dry, well-ventilated place.          Keep away from food and drink, including those for animals.          Keep away from all sources of ignition - do not smoke.          Keep well away from all sources of ignition, heat and direct sunlight.          Avoid accumulation of electrostatic charges.</p> <p>Packaging          Always keep in packaging made of an identical material to the original.</p>
<b>7.3</b>	<p><b>Specific end use(s)</b></p> <p>No additional data available.</p>

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>8.1</b>	<p><b>Control parameters</b></p> <p>Occupational exposure limits:          - ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010)          :</p> <table border="1"> <thead> <tr> <th>CAS</th> <th>TWA :</th> <th>STEL :</th> <th>Ceiling :</th> <th>Definition :</th> <th>Criteria :</th> </tr> </thead> <tbody> <tr> <td>80-56-8</td> <td>20 ppm</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>76-22-2</td> <td>2 ppm</td> <td>3 ppm</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>127-91-3</td> <td>20 ppm</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> </tbody> </table> <p>- France (INRS - ED984 :2008) :</p> <table border="1"> <thead> <tr> <th>CAS</th> <th>VME-ppm :</th> <th>VME-mg/m3 :</th> <th>VLE-ppm :</th> <th>VLE-mg/m3 :</th> <th>Notes :</th> <th>TMP No :</th> </tr> </thead> <tbody> <tr> <td>76-22-2</td> <td>2</td> <td>12</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> </tbody> </table> <p>- UK / WEL (Workplace exposure limits, EH40/2005, 2007) :</p> <table border="1"> <thead> <tr> <th>CAS</th> <th>TWA :</th> <th>STEL :</th> <th>Ceiling :</th> <th>Definition :</th> <th>Criteria :</th> </tr> </thead> <tbody> <tr> <td>76-22-2</td> <td>2 ppm</td> <td>3 ppm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :	80-56-8	20 ppm	-	-	-	-	76-22-2	2 ppm	3 ppm	-	-	-	127-91-3	20 ppm	-	-	-	-	CAS	VME-ppm :	VME-mg/m3 :	VLE-ppm :	VLE-mg/m3 :	Notes :	TMP No :	76-22-2	2	12	-	-	-	-	CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :	76-22-2	2 ppm	3 ppm			
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	<p>Gloves must be selected according to the application and duration of use at the workstation.</p> <p>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.</p> <p>Recommended properties:</p> <ul style="list-style-type: none"> <li>- Impervious gloves in accordance with standard EN374.</li> </ul>
Eye Protection	<p>Avoid contact with eyes.</p> <p>Use eye protectors designed to protect against liquid splashes.</p> <p>Before handling, wear safety goggles in accordance with standard EN166.</p>
Other Protection	<p>In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034 to prevent skin contact.</p> <p>Work clothing worn by personnel shall be laundered regularly.</p> <p>After contact with the product, all parts of the body that have been soiled must be washed.</p>
Hygiene Measures	<p>Remove contaminated clothing and wash the skin thoroughly with soap and water after work.</p>
Personal Protection	<p>Use personal protection according to Directive 89/686/EEC.</p>
Skin Protection	<p>Avoid skin contact.</p> <p>Wear suitable protective clothing</p> <p>Suitable type of protective clothing:</p> <p>In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605 to prevent skin contact.</p>
Environmental Exposure Controls	<p>Avoid discharging into drainage water. Only eliminate by authorised companies.</p>

## 09. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties	
Appearance	Liquid
Colour	Yellow-Green to Yellow-Brown
Odour	Characteristic.
Relative Density	0.875 – 0.915 @ 20°C
Flash Point (°C)	56
Refractive Index	1.440 – 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	No additional data available.
Auto-ignition temperature (°C)	No additional data available.
9.2 Other information	
No additional data available.	

## 10. STABILITY AND REACTIVITY

<b>10.1</b>	<b>Reactivity</b>
	No additional data available.
<b>10.2</b>	<b>Chemical stability</b>
	Stable under the recommended handling and storage conditions.
<b>10.3</b>	<b>Possible hazardous reactions</b>
	No additional data available.
<b>10.4</b>	<b>Conditions to Avoid</b>
	Any apparatus likely to produce a flame or to have a metallic surface at high temperature (burners, electric arcs, furnaces etc.) must not be allowed on the premises. Avoid: - accumulation of electrostatic charges. - heating - heat - flames and hot surfaces
<b>10.5</b>	<b>Incompatible materials</b>
	Materials To Avoid: Strong acids, alkali or oxidising agents.
<b>10.</b>	<b>Hazardous Decomposition Products</b>
	The thermal decomposition may release/form: - carbon monoxide (CO) - carbon dioxide (CO <sub>2</sub> ).

## 11. TOXOLOGICAL INFORMATION

<b>11.1 Information on toxicological effects</b>	
Acute Toxicity	<p>Acute toxicity :</p> <p>BENZYL SALICYLATE (CAS: 118-58-1) Oral route: LD50 = 2200 mg/kg.</p> <p>GERANIOL (CAS: 106-24-1) Oral route: LD50 = 4200 mg/kg</p> <p>THUJONE (CAS: 546-80-5) Oral route: LD50 = 500 mg/kg</p> <p>ALPHA-PINENE X (CAS: 80-56-8) Oral route: LD50 = 3700 mg/kg</p>
Skin corrosion / irritation	<p>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.</p>
Serious eye damage / irritation	<p>May have irreversible effects on the eyes, such as tissue damage in the eye, or serious physical decay of sight, which is not fully reversible by the end of observation at 21 days. Serious eye damage is typified by the destruction of cornea, persistent corneal opacity and iritis.</p>
Respiratory or skin sensitisation	<p>May cause an allergic skin reaction.</p>
Germ Cell Mutagenicity	<p>No additional data available.</p>
Carcinogenicity	<p>CAS 5989-27-5: IARC Group 3: The agent is not classifiable as to its carcinogenicity to humans</p>
Reproductive toxicity	<p>No additional data available.</p>
STOT-single exposure	<p>No additional data available.</p>
STOT-repeated exposure	<p>No additional data available.</p>
Photo-toxicity	<p>No additional data available.</p>
	<p>Aspiration toxicity includes severe acute effects such as chemical pneumonia, varying degrees of pulmonary injury or death following aspiration.</p>
Other Information	<p>No additional data available.</p>

## 12. ECOLOGICAL INFORMATION

<b>12.1 Toxicity</b>	<p>Toxic to aquatic life with long lasting effects. The product must not be allowed to run into drains or waterways. No aquatic toxicity data available for the substances.</p>
<b>12.2 Persistence &amp; degradability</b>	<p>Degradability: No additional data available.</p>
<b>12.3 Bioaccumulation Potential</b>	<p>Bioaccumulative potential: No data available on bioaccumulation.</p>
<b>12.4 Mobility in soil</b>	



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

Proper waste management of the mixture 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

### 14.1 UN number

UN No. Road	1169
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UN No. SEA	1169
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UN No. AIR	1169
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### 14.2 UN proper shipping name

UN1169= EXTRACTS, AROMATIC, LIQUID.

### 14.3 Transport hazard class(es)

ADR/RID/ADN Class:	3
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ICAO Class/Division:	3
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IMDG Class:	3
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Transport Labels	
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### 14.4 Packing group

ADR/RID/ADN Packing group	III
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IMDG Packing group	III
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ICAO Packing group	III
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### 14.5 Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant



## 14.6 Special precautions for user

ADR/RID

Class	Code	Pack gr.	Label Ident.	LQ	Provis.	EQ	Cat.	Tunnel
3	F1	III	3	-	5			
L	163		E1 3	E				

IMDG

Class	2° Label	Pack gr.	LQ	EMS	Provis.	EQ
3	-	III	5 L	F-E,S-D	163 223 904 955	E1

IATA

Class	2°Label	Pack	Cargo	Cargo	note	EQ	
gr.	Passager	Passager					
3	-	III	355		60 L	366	220 L A3
A72	E1						
3	-	III	Y344		10 L	-	- A3
A72	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 MARPOL73/78 and the IBC code

No additional data available.

## 15. REGULATORY INFORMATION

<b>15.1</b>	<b>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). 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.</p>
<b>15.2</b>	<b>Chemical safety assessment</b>
	No additional information available.

## 16. OTHER INFORMATION

Hazard and/or Precautionary Statements in Full	<p>H226 Flammable liquid and vapour.            H228 Flammable solid.            H302 Harmful if swallowed.            H304 May be fatal if swallowed and enters airways.            H315 Causes skin irritation.            H317 May cause an allergic skin reaction.            H318 Causes serious eye damage.            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.</p>
Other Information	None.
Revision Date	20/10/2016
Reason for revision	Updated New Format SDS.
Rev No/Repl, SDS Generated	

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