


## MATERIAL SAFETY DATA SHEET

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

<b>1.1 Product Identifier</b>					
Product Name		Spearmint Essential Oil			
Biological Definition		Mentha Spicata Oil is obtained from the herbs of the Spearmint, <i>Mentha spicata L., Labiatae</i>			
INCI Name		Mentha Spicata Herb Oil			
Synonyms & Trade Names		-			
CAS-No	84696-51-5	EC No.	283-656-2	EINECS No.	283-656-2
<b>1.2 Relative identified uses of the substance or mixture and uses advised against</b>					
No additional data available.					
<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)	
Physical and Chemical Hazards: - Human health: Acute Tox. 4 - H302. Skin Corr./Irrit. 2 H315 Eye Irrit. 2 - H319. Skin Sens. 1 -H317. Asp. Tox. 1 - H304. Environment: Aquatic Chronic 2 - H411.	
<b>2.2 Label Elements</b>	
Label in accordance with (EC) No 1272/2008	
GHS08      GHS09      GHS07 	
Signal Word	Danger
Contains	-
<b>Hazard Statements</b>	
H302 - Harmful if swallowed. H304 - May be fatal if swallowed and enters airways. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H411 - Toxic to aquatic life with long lasting effects.	

## Precautionary Statements

P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
 P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
 P331 - Do NOT induce vomiting.  
 P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.  
 P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention.  
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P273 - Avoid release to the environment.

## Supplementary Precautionary Statements

None

## 2.3 Other Hazards

PBT or vPvB according to Annex XIII	No additional data available.
Adverse physio-chemical properties	No additional data available.
Adverse effects on human health	May be harmful in contact with skin.

## 03. COMPOSITION/INFORMATION ON INGREDIENTS

<b>3.2 Mixtures</b>
<b>Min 60.0% L-Carvone</b> CAS-No.: 6485-40-1 EC No.: 229-352-5 Classification (EC 1272/2008) Aquatic Acute 3 (H402), Skin Sens. 1 (H317), Skin Irrit. 3 (H316), Acute Tox. 4 (H302), Acute Tox. 5 (H313).
<b>5.0 - 15.0% D-Limonene</b> CAS-No.: 5989-27-5 EC No.: 227-813-5 Classification (EC 1272/2008) Aquatic Acute 1 (H400), Skin Sens. 1(H317), Skin Irrit. 2 (315), Asp. Tox. 1 (H304), Aquatic Chronic 1 (H410), Flam. Liq. 3 (H226)

## 04. FIRST AID MEASURES

<b>4.1</b>	<b>Description of first aid measures</b>
Inhalation	Move the exposed person to fresh air at once. If breathing is difficult, give oxygen. If not breathing, give artificial respiration.
Ingestion	Seek medical assistance immediately. Rinse mouth and drink plenty of water. Keep patient under observation. 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.
<b>4.2</b>	<b>Most important symptoms and effects, both acute and delayed</b>
	None known
<b>4.3</b>	<b>Indication of any immediate medical attention and special treatment needed</b>
	Treat symptomatically.

## 05. FIRE-FIGHTING MEASURES

<b>5.1 Extinguishing Media</b>
Use: Powder. Carbon dioxide (CO2). Foam
<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. Ensure adequate ventilation, especially in confined areas.
<b>6.2 Environmental Precautions</b>
Do not discharge into drains, water courses or onto the ground. Collect spillage.
<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>
Refer to Section 8 for information on personal protection equipment. Refer to section 12 for ecological information.

## 07. HANDLING AND STORAGE

<b>7.1 Precautions for safe handling</b>
Avoid spilling, skin and eye contact. Adopt best manual handling considerations when handling, carrying and dispensing. Ensure adequate ventilation, especially in confined areas.
<b>7.2 Conditions for safe storage, including any incompatibilities</b>
Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container. Keep away from heat, sparks and open flame.
<b>7.3 Specific end use(s)</b>
No additional data available.

## 08. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters				
Chemical Name	UK	France	Spain	Germany
D-Limonene	-	TWA: 1000 mg/m <sup>3</sup> STEL: 1500 mg/m <sup>3</sup>	-	TWA: 5ppm TWA: 28 mg/m <sup>3</sup> Ceiling / Peak: 20 ppm Ceiling / Peak: 112 mg/m <sup>3</sup> Skin
	Italy	European Union	Netherlands	Finland
D-Limonene	-	-	-	TWA: 25ppm TWA: 140 mg/m <sup>3</sup> STEL: 50ppm STEL: 280 mg/m <sup>3</sup>
	Denmark	Switzerland	Austria	Norway
D-Limonene	-	TWA: 7ppm TWA: 40 mg/m <sup>3</sup> STEL: 14ppm STEL 80 mg/m <sup>3</sup>	-	TWA: 25ppm TWA: 140 mg/m <sup>3</sup> TEL: 37.5 ppm STEL: 175 mg/m <sup>3</sup>
	Poland	Ireland	Portugal	
D-Limonene	-	-	-	
Derived No Effect Level (DNEL)		No information available		
Predicted No Effect Concentration (PNEC)		No information available		
8.2 Exposure controls				
Protective Equipment				
				
Process Conditions	No additional data available.			
Engineering Measures	Provide adequate ventilation.			
Respiratory Equipment	No additional data available.			
Hand Protection	Use suitable protective gloves if risk of skin contact.			
Eye Protection	Wear approved safety goggles.			
Other Protection	Wear rubber apron.			
Hygiene Measures	Remove contaminated clothing and wash the skin thoroughly with soap and water after work.			
Personal Protection	Use personal protection according to Directive 89/686/EEC.			
Skin Protection	Wear apron or protective clothing in case of splashes.			
Environmental Exposure Controls	Avoid discharging into drainage water.			

## 09. PHYSICAL AND CHEMICAL PROPERTIES

<b>9.1 Information on basic physical and chemical properties</b>	
Appearance	Clear mobile liquid.
Colour	Colourless to green yellow.
Odour	Characteristic
Relative Density	0.910 - 0.938 @ 20°C
Flash Point (°C)	58
Refractive Index	1.480 -1.495 @ 20°C
Melting Point (°C)	No additional data available
Boiling Point (°C)	No additional data available
Vapour Pressure	0.4
Solubility in Water @20°C	Insoluble in water.
Auto-ignition temperature (°C)	No additional data available.

<b>9.2 Other information</b>	
No additional data available.	

## 10. STABILITY AND REACTIVITY

<b>10.1 Reactivity</b>	No additional data available.
<b>10.2 Chemical stability</b>	Stable under the recommended handling and storage conditions.
<b>10.3 Possible hazardous reactions</b>	None under normal processing.
<b>10.4 Conditions to Avoid</b>	Extremes of temperature and direct sunlight.
<b>10.5 Incompatible materials</b>	No additional data available.
<b>10.6 Hazardous Decomposition Products</b>	No additional data available.

## 11. TOXOLOGICAL INFORMATION

11.1 Information on toxicological effects	
Acute Toxicity	<b>ATEmix (oral) 1,818.00</b> <b>ATEmix (dermal) 2,711.00</b> <b>Unknown acute toxicity</b> 23% of the mixture consists of ingredient(s) of unknown toxicity.  L-Carvone Oral LD50 = 1640 mg/kg (rat) D-Limonene Oral LD50 = 4400 mg/kg (rat) Dermal LD50 >5 g/kg (rabbit)
Skin corrosion / irritation	No additional data available.
Serious eye damage / irritation	No additional data available.
Respiratory or skin sensitisation	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.
Other Information	None.



## 12. ECOLOGICAL INFORMATION

12.1 Toxicity				
23 % of the mixture consists of components(s) of unknown hazards to the aquatic environment				
	Chemical Name	Algae/Aquatic Plants	Fish	Crustacea
	D-Limonene	-	0.619 - 0.796: 96 h Pimephales promelas mg/L LC50 flow-through 35: 96 h Oncorhynchus mykiss mg/L LC50	-
12.2 Persistence & degradability				
No additional data available.				
12.3 Bioaccumulation Potential				
No additional data available.				
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

<b>13.1 Waste treatment methods</b>
Waste from Residues / Unused Products Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated packaging Improper disposal or reuse of this container may be dangerous and illegal.

## 14. TRANSPORT INFORMATION

<b>14.1 UN number</b>	
UN No. Road	3082
UN No. SEA	3082
UN No. AIR	3082
<b>14.2 UN proper shipping name</b>	
FLAMMABLE LIQUID, CORROSIVE, N.O.S	
<b>14.3 Transport hazard class(es)</b>	
ADR/RID/ADN Class:	9
ICAO Class/Division:	9
IMDG Class:	9
Transport Labels	
	
<b>14.4 Packing group</b>	
ADR/RID/ADN Packing group	III
IMDG Packing group	III
ICAO Packing group	III
<b>14.5 Environmental hazards</b>	
Environmentally Hazardous Substance/Marine Pollutant	
	
<b>14.6 Special precautions for user</b>	
None	
<b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code</b>	
EmS: F-A,S-F	



## 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>H400 - Very toxic to aquatic life H317 - May cause an allergic skin reaction H304 - May be fatal if swallowed and enters airways H410 - Very toxic to aquatic life with long lasting effects H226 - Flammable liquid and vapour H315 - Causes skin irritation H402 - Harmful to aquatic life H302 - Harmful if swallowed H313 - May be harmful in contact with skin</p>
Other Information	None.
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