

## Material Safety Data Sheet: Camphor (white)

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

<b>1.1 Product Identifier</b>					
Product Name		Camphor Oil White			
Biological Definition		Cinnamomum Camphora Bark Oil is the volatile oil expressed, by steam distillation, from the bark of the Camphor, <i>Cinnamomum camphora</i> (L.), Lauraceae.			
INCI Name		Cinnamomum Camphora Bark Oil			
Synonyms & Trade Names		-			
CAS-No	92201-50-8 / 8022-91-1 / 8008-51-3	EC No.	295-980-1 / - / -	EINECS No.	295-980-1 / - / -
<b>1.2 Relative identified uses of the substance or mixture and uses advised against</b>					
Recommended use; Industry Use.					
<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

### 2.1 Classification of the substance or mixture

The Full Text for all Hazard Statements is displayed in Section 16.

Classification (EC 1272/2008)

Aspiration toxicity	Category 1 - (H304).
Skin corrosion/irritation	Category 2 - (H315).
Serious eye damage/eye irritation	Category 2 - (H319).
Skin sensitization	Category 1 - (H317).
Chronic aquatic toxicity	Category 2 - (H411).
Flammable Liquids	Category 3 - (H226).

### 2.2 Label Elements

Label in accordance with (EC) No 1272/2008

GHS02



GHS07



GHS08



GHS09



Signal Word

Danger.

Contains

D-LIMONENE, ALPHA-TERPINENE, D-3-CARENE, PARACYMENE.

### 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.  
 H319 - Causes serious eye irritation.  
 H411 - Toxic to aquatic life with long lasting effects.

Precautionary Statements
<p>P280 Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P281 Use personal protective equipment as required.</p> <p>P262 Do not get in eyes, on skin, or on clothing.</p> <p>P363 Wash contaminated clothing before reuse.</p>
Supplementary Precautionary Statements
<p>P280 - Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P370 + P378 - In case of fire: Use dry sodium carbonate to extinguish.</p> <p>P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.</p> <p>P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.</p> <p>P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.</p> <p>P331 - Do NOT induce vomiting.</p> <p>P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.</p> <p>P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention.</p> <p>P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P337 + P313 - If eye irritation persists: Get medical advice/attention.</p> <p>P273 - Avoid release to the environment.</p>

2.3 Other Hazards	
PBT or vPvB according to Annex XIII	No additional data available.
Adverse physio-chemical properties	Toxic to aquatic life.
Adverse effects on human health	No additional data available.

## 03. COMPOSITION/INFORMATION ON INGREDIENTS

<b>3.2 Mixtures</b>	
	<p><b>35-40% EUCALYPTOL</b> CAS No:470-82-6EC No: 207-431-5            Classification (EC 1272/2008) Skin Irrit. 3 (H316) Acute Tox. 5 (H303), Skin Irrit. 3 (316) (EFFA)            Acute Tox. 5 (H303)(EFFA), Flam. Liq. 3 (H226)(EFFA)</p>
	<p><b>15-40% D-LIMONENE</b>,CAS No: 5989-27-5EC No: 227-813-5            Classification (EC 1272/2008) Aquatic Acute 1 (H400)(EFFA), Skin Sens. 1 (H317) (EFFA)            Skin Irrit. 2 (315) (EFFA), Asp. Tox. 1(H304) (EFFA),            Aquatic Chronic 1 (H410) (EFFA), Flam. Liq. 3 (H226)(EFFA)            Skin Irrit. 2 (H315), Skin Sens. 1 (H317)            Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Flam. Liq. 3 (H226)</p>
	<p><b>5-15% ALPHA-TERPINENE</b> CAS No: 99-86-5EC No: 202-795-1            Classification (EC 1272/2008) Aquatic Acute 2 (H401) (EFFA), Skin Irrit. 3 (316) (EFFA),            Aquatic Chronic 2 (H411) (EFFA), Asp. Tox. 1 (H304) (EFFA),            Acute Tox. 4 (H302) (EFFA), Flam. Liq. 3 (H226)(EFFA),Aquatic Acute 2 (H401),            Skin Irrit. 3 (H316), Aquatic Chronic 2 (H411), Acute Tox. 4 (H302)</p>
	<p><b>5-20% D-3-CARENE</b>CAS No:13466-78-9EC No: 236-719-3            Classification (EC 1272/2008) Skin Sens. 1 (H317) (EFFA), Skin Irrit. 2 (315) (EFFA), Asp. Tox. 1            (H304) (EFFA) Acute Tox. 5 (H303)(EFFA), Flam. Liq. 3 (H226)(EFFA),            Skin Sens. 1 (H317), Skin Irrit. 2 (H315), Acute Tox. 5 (H303)</p>
	<p><b>2.5-10% PARA-CYMENECAS</b> No99-87-6EC No: 202-796-7            Classification (EC 1272/2008) Aquatic Acute 2 (H401) (EFFA), Skin Irrit. 3 (316) (EFFA),            Aquatic Chronic 2 (H411) (EFFA), Asp. Tox. 1 (H304) (EFFA),            Acute Tox. 5 (H303)(EFFA), Flam. Liq. 3 (H226)(EFFA), Aquatic Acute 2 (H401),            Skin Irrit. 3 (H316), Aquatic Chronic 2 (H411), Acute Tox. 5 (H303)</p>

## 04. FIRST AID MEASURES

<b>4.1</b>	<b>Description of first aid measures</b>
Inhalation	Move to fresh air in case of accidental inhalation of vapours. If breathing is difficult, give oxygen. If not breathing, give artificial respiration.
Ingestion	Do not induce vomiting without medical advice. Clean mouth with water. Never give anything by mouth to an unconscious person. Get medical attention.
Skin Contact	Remove contaminated clothing and shoes. Wash off immediately with soap and plenty of water. Wash contaminated clothing before reuse. Consult a physician if necessary.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/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>
	Note to physicians 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>
Thermal decomposition can lead to release of irritating and toxic gases and vapours. Hazardous combustion products - Irritating or toxic substances may be emitted upon burning, combustion, or decomposition.
<b>5.3 Advice for firefighters</b>
Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required.

## 06. ACCIDENTAL RELEASE MEASURES


<b>6.1 Personal precautions, protective equipment and emergency procedures</b>
Ensure adequate ventilation, especially in confined areas. Wear protective clothing as described in Section 8 of this safety data sheet.
<b>6.2 Environmental Precautions</b>
Collect spillage.
<b>6.3 Methods and material for containment and cleaning up.</b>
Methods for Containment. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13). Methods for cleaning up. Cover liquid spill with sand, earth or other non-combustible absorbent material. Sweep up and shovel into suitable containers for disposal.
<b>6.4 Reference to other sections</b>
See Section 12: ECOLOGICAL INFORMATION.

## 07. HANDLING AND STORAGE

<b>7.1 Precautions for safe handling</b>
Advice on safe handling Ensure adequate ventilation, especially in confined areas. General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.
<b>7.2 Conditions for safe storage, including any incompatibilities</b>
Keep container tightly closed in a dry and well-ventilated place.
<b>7.3 Specific end use(s)</b>
No additional data available.

## 08. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters					
Chemical Name	EU/UK	Italy/Austria/ Poland/Netherlands/Ireland	France	Germany	Spain
Limonene 5889-27-5	-	-	TWA:1000mg/m <sup>3</sup>  STEL:1500mg/m <sup>3</sup>	TWA: 5ppm TWA: 28mg/m <sup>3</sup> Ceiling/Peak: 20ppm Ceiling/Peak: 112mg/m <sup>3</sup> Skin	-
D-3-Carene 13466-78-6	-	-	TWA:1000mg/m <sup>3</sup>  STEL:1500mg/m <sup>3</sup>	-	-
Alpha-Terpinene 99-86-5	-	-	TWA:1000mg/m <sup>3</sup>  STEL:1500mg/m <sup>3</sup>	-	-
Para-Cymene 99-87-6	-	-	TWA:150mg/m <sup>3</sup>  TWA:1000mg/m <sup>3</sup>  STEL:1500mg/m <sup>3</sup>	-	-
Chemical Name	Portugal	Finland	Denmark	Switzerland	Norway
Limonene 5889-27-5	-	TWA: 25 ppm TWA: 140 mg/m <sup>3</sup> STEL: 50ppm STEL: 260mg/m <sup>3</sup>	-	STEL: 14ppm STEL: 80mg/m <sup>3</sup> TWA: 7ppm TWA: 40mg/m <sup>3</sup>	STEL: 37.5 ppm STEL: 175 mg/m <sup>3</sup> TWA: 25ppm TWA: 140 mg/m <sup>3</sup>
D-3-Carene 13466-78-6	TWA: 20ppm	-	-	-	TWA: 25ppm TWA: 140mg/m <sup>3</sup> STEL: 25 ppm STEL: 140mg/m <sup>3</sup>
Alpha-Terpinene 99-86-5	-	-	-	-	-

Para-Cymene 99-87-6	-	-	TWA:25ppm TWA:135mg/ m <sup>3</sup>	-	-
<b>8.2 Exposure controls</b>					
Protective Equipment					
					
Process Conditions	Provide eyewash station.				
Engineering Measures	Ensure adequate ventilation, especially in confined areas.				
Respiratory Equipment	Provide adequate ventilation.				
Hand Protection	Wear suitable protective clothing.				
Eye Protection	Avoid contact with eyes. Wear safety glasses with side shields (or goggles).				
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	Wear suitable protective clothing.				
Skin Protection	Wear suitable protective clothing.				
Environmental Exposure Controls	Avoid discharging into drainage water. Only eliminate by authorised companies.				

## 09. PHYSICAL AND CHEMICAL PROPERTIES

<b>9.1 Information on basic physical and chemical properties</b>	
Appearance	Clear liquid, colourless to pale yellow.
Colour	Colourless to pale yellow.
Odour	Characteristic
Relative Density	0.855 - 0.910 @ 20°C
Flash Point (°C)	45.0
Refractive Index	1.462 - 1.475 @ 20°C
Melting Point (°C)	No additional data available.
Boiling Point (°C)	No additional data available.
Vapour Pressure	< 0.001
Solubility in Water @20°C	No additional data available.
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</b>	<b>Reactivity</b>
No additional data available.	
<b>10.2</b>	<b>Chemical stability</b>
Stable under normal conditions. Sensitivity to Mechanical Impact: None Sensitivity to Static Discharge: None	
<b>10.3</b>	<b>Possible hazardous reactions</b>
No possibility of hazardous reactions under normal processing.	
<b>10.4</b>	<b>Conditions to Avoid</b>
Avoid extremes of temperature and direct sunlight.	
<b>10.5</b>	<b>Incompatible materials</b>
No additional data available.	
<b>10.6</b>	<b>Hazardous Decomposition Products</b>
No additional data available.	



## 11. TOXOLOGICAL INFORMATION

11.1 Information on toxicological effects				
Acute Toxicity	<p>Product does not present an acute toxicity hazard based on known or supplied information.</p> <p>Inhalation No data available.</p> <p>Eye Contact No data available.</p> <p>Skin contact No data available.</p> <p>Ingestion No data available.</p> <p>The following values are calculated based on chapter 3.1 of the GHS document</p> <p>ATEmix (oral) 2,800.00</p> <p>ATEmix (dermal) 24,444.00</p> <p>Unknown acute toxicity 12% of the mixture consists of ingredient(s) of unknown toxicity.</p>			
	<b>Chemical Name</b>	<b>Oral LD50</b>	<b>Dermal LD50</b>	<b>Inhalation LC50</b>
	EUCALYPTOL	= 2480 mg/kg (Rat)	-	-
	D-LIMONENE	= 4400 mg/kg (Rat) > 5 g/kg (Rabbit)	-	-
	ALPHA-TERPINENE	= 1680 mg/kg (Rat)	-	-
	D-3-CARENE	= 4800 mg/kg (Rat)	-	-
	PARA-CYMENE	= 3669 mg/kg (Rat)	-	-
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	No additional data available.			



## 12. ECOLOGICAL INFORMATION

<b>12.1 Toxicity</b>	24 % of the mixture consists of components(s) of unknown hazards to the aquatic environment	
<b>Chemical Name</b>	<b>Eucalyptol</b>	<b>D-Limonene</b>
Algae/aquatic plants	-	-
Fish	95.4 - 109: 96 h Pimephales promelas mg/L LC50 flow-through	0.619 - 0.796: 96 h Pimephales promelas mg/L LC50 flow-through 35: 96 h Oncorhynchus mykiss mg/L LC50
Crustacea	-	-
<b>12.2 Persistence &amp; degradability</b>	Degradability: No additional data available.	
<b>12.3 Bioaccumulation Potential</b>	Para-Cymene Partition Co-efficient = 4.1	
<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>
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	2319
UN No. SEA	2319
UN No. AIR	2319
<b>14.2 UN proper shipping name</b>	
Terpenes; hydrocarbons NOS	
<b>14.3 Transport hazard class(es)</b>	
ADR/RID/ADN Class:	3 Flammable Liquid.
ICAO Class/Division:	3 Flammable Liquid.
IMDG Class:	3 Flammable Liquid.
Transport Labels	
	
<b>14.4 Packing group</b>	
IMDG Packing group	III
ADR/RID/ADN 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>	
No additional data available.	
<b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code</b>	
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. H302 - Harmful if swallowed. H303 - May be harmful if swallowed. H304 - May be fatal if swallowed and enters airways. H315 - Causes skin irritation. H316 - Causes mild 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. H411 - Toxic to aquatic life with long lasting effects.</p>
Other Information	None.
Revision Date	27/04/18
Reason for revision	Updated New Format SDS.
Rev No/Repl, SDS Generated	02

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