





MATERIAL SAFETY DATA SHEET

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

1.1 Product Identifier					
Product Name		Tangerine Oil			
Biological Definition		Citrus Reticulata Peel Oil is the volatile oil obtained from the peel of tangerine <i>Citrus reticulata, Rutaceae</i>			
INCI Name		Citrus reticulata Peel Oil			
Synonyms & Trade Names -					
CAS-No	8008-31-9/ 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					
No further information available.					
1.3 Details of the supplier of the safety data sheet					
NTM UK LTD, 69 Bethel Street, Norwich, Norfolk, United Kingdom NR2 1NR					
1.4 Emergency Tel. No.			+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)	
Physical and Chemical Hazards: Flam. Liq. 3 - H226 Human health: Acute Tox. 4 - H304. Skin Corr. 2 H314 Eye Irrit. 2 - H319. Skin Sens. 1 -H317. Asp. Tox. 1 - H304. Environment: Aquatic Acute Haz. 1 Environment: Aquatic LT Haz. 1- H410.	
2.2 Label Elements	
Label in accordance with (EC) No 1272/2008	
GHS08 	GHS02 
GHS09 	GHS07 
Signal Word	Danger
Contains	Limonene, Myrcene, pinenes, linalool, Citral, decanal.
Hazard Statements	
H226 Flammable liquid and vapour. 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. H315, Causes skin irritation. H410, Very toxic to aquatic life with long lasting effects.	

Precautionary Statements

P210, Keep away from heat, sparks, open flames and hot surfaces. - No smoking.
 P233, Keep container tightly closed.
 P240, Ground/bond container and receiving equipment.
 P241, Use explosion-proof electrical, ventilating and lighting equipment.
 P242, Use only non-sparking tools.
 P243, Take precautionary measures against static discharge.
 P261, Avoid breathing vapour or dust.
 P264, Wash hands and other contacted skin thoroughly after handling.
 P272, Contaminated work clothing should not be allowed out of the workplace.
 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.
 P333/313, If skin irritation or rash occurs: Get medical advice/attention.
 P362, Take off contaminated clothing and wash before reuse.

Supplementary Precautionary Statements

P370/378, In case of fire: Use carbon dioxide, dry chemical, foam for extinction.
 P391, Collect spillage.
 P403/235, Store in a well-ventilated place. Keep cool.
 P405, Store locked up.
 P501, Dispose of contents/container to approved disposal site, in accordance with local regulations.

2.3 Other Hazards

PBT or vPvB according to Annex XIII	No
Adverse physio-chemical properties	Combustible but should not self-ignite.
Adverse effects on human health	Skin contact may cause irritation/sensitisation.

03. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures
≤ 92.0% Limonene CAS-No: 5989-27-5; EC No.: 227-813-5 Classification (EC 1272/2008) Flam. Liq. 3 - H226, Skin Irrit. 2 - H315, Skin Sens. 1 - H317, Asp. Tox. 1 - H304, Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410
≤ 4.0% Myrcene CAS No: 123-35-3; EC No: 204-622-5 Classification (EC 1272/2008) Flam. Liq. 3 - H226, Asp. Tox. 1 - H304, Aquatic Chronic 3 - H412
≤ 2.0% α-Pinene CAS No: 80-56-8; EC No: 201-291-9 Classification (EC 1272/2008) Flam. Liq. 3, H226; Asp. Tox. 1, H304; Skin Sens.1, H317; Aquatic Acute 1, Aquatic Chronic 1, H410
≤ 1.0% Linalool CAS No: 78-70-6; EC No: 201-134-4 Classification (EC 1272/2008) Acute Tox. 5 - H303, Skin Irrit. 2 - H315, Aquatic Acute 3 - H402
≤ 1.0% γ-Terpinene (p-mentha-1,4-diene) CAS No99-85-4; EC No: 202-794-6 Classification (EC 1272/2008) Flam. Liq. 3 - H226, Asp Tox. 1 -H304;
≤ 1.0% Decanal CAS No: 112-31-2; EC No: 203-872-5 Classification (EC 1272/2008) Skin Irrit. 2 - H315, Aquatic Chronic 3 - H412
≤ 1.0% β-Pinene CAS No: 127-91-3; EC No: 20-872-5 Classification (EC 1272/2008) Flam. Liq. 3 - H226, Asp. Tox. 1 - H304, Skin Irrit. 2 - H315, Skin Sens. 1 - H317
≤ 0.4% Citral CAS No: 5392-40-5; EC No: 226-394-6 Classification (EC 1272/2008) Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Skin Sens. 1 - H317

04. FIRST AID MEASURES

4.1	Description of first aid measures
Inhalation	Move the exposed person to fresh air at once. Seek medical attention immediately
Ingestion	Seek medical assistance immediately. Rinse mouth with water.
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	Most important symptoms and effects, both acute and delayed
	May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction.
4.3	Indication of any immediate medical attention and special treatment needed
	None expected, see Section 4.1 for further information.

05. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media	Do not use a direct stream of water to extinguish. Use: CO2, Dry powder, Foam. Spray to base of flames.
5.2 Special hazards arising from the product	Specific hazards: When heated and in case of fire, toxic vapours/gases may be formed, including Carbon Monoxide (CO)
5.3 Advice for firefighters	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. Maintain good occupational and personal hygiene. Avoid inhalation of vapours and contact with skin and eyes.
6.2 Environmental Precautions	Do not discharge into drains, water courses or onto the ground.
6.3 Methods and material for containment and cleaning up.	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.
6.4 Reference to other sections	Refer to Section 8 and 13 for information.

07. HANDLING AND STORAGE

7.1 Precautions for safe handling	Apply good manufacturing practice & industrial hygiene practices, ensuring proper workplace ventilation. Observe good personal hygiene, and do not eat, drink or smoke whilst handling. Keep away from heat, sparks and open flame.
7.2 Conditions for safe storage, including any incompatibilities	Store in tightly closed original container, in a cool, dry & ventilated area away from heat sources & protected from light. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge.
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	Eye bath.
Engineering Measures	Provide adequate ventilation. Avoid static discharges in working area.
Respiratory Equipment	Under normal conditions of use and where adequate ventilation is available to prevent build-up of excessive vapour, this material should not require special engineering controls. However, in conditions of high or prolonged use, or high temperature or other conditions which increase exposure, the following engineering controls can be used to minimise exposure to personnel: a) Increase ventilation of the area with local exhaust ventilation. b) Personnel can use an approved, appropriately fitted respirator with organic vapour cartridge or canisters and particulate filters. c) Use closed systems for transferring and processing this material. Also refer to Sections 2 and 7.
Hand Protection	Avoid all skin contact. Wear chemical resistant gloves (PVC).
Eye Protection	Wear approved safety goggles.
Other Protection	No additional data available.
Hygiene Measures	Remove contaminated clothing and wash the skin thoroughly with soap and water after work.
Personal Protection	Avoid inhalation and contact with skin and eyes.
Skin Protection	Wear apron or protective clothing in case of splashes.
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, orange to dark orange.
Colour	Orange to dark orange.
Odour	Characteristic – Sweet citrus, tangerine.
Relative Density	0.844 - 0.870 @ 20°C
Flash Point (°C)	45
Refractive Index	1.471 -1.482 @ 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	Presents no significant reactivity hazards, by itself or in contact with water.
10.2 Chemical stability	Stable under the recommended handling and storage conditions.
10.3 Possible hazardous reactions	Not expected under normal temperature conditions and recommended use.
10.4 Conditions to Avoid	Avoid heat, sparks and open flames.
10.5 Incompatible materials	Materials to Avoid: Strong acids, alkalis and oxidising agents.
10.6 Hazardous Decomposition Products	In case of fire, dangerous decomposition products can be generated, such as carbon monoxide.

11. TOXOLOGICAL INFORMATION

11.1 Information on toxicological effects	
Acute Toxicity	Assumed Toxicity Value (LD50 or ATE) for Acute Oral Toxicity: 83971.44 Assumed Toxicity Value (LD50 or ATE) for Acute Dermal Toxicity: n/a Assumed Toxicity Value (LC50 or ATE) for Acute Inhalation Toxicity: n/a Inhalation Route: n/a
Skin corrosion / irritation	Causes skin irritation (H315).
Serious eye damage / irritation	No additional data available.
Respiratory or skin sensitisation	May cause an allergic skin reaction (H317).
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	May be fatal if swallowed and enters airways (H304).
Photo-toxicity	No additional data available.
Other Information	No additional data available.



12. ECOLOGICAL INFORMATION

12.1 Toxicity	Marine pollutant. Very toxic to aquatic life with long lasting effects.
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	This substance does not meet the PBT/vPvB criteria of REACH, annex XIII
12.6 Other adverse effects	Do not discharge into the environment especially not into waterways, sewers and the sea.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
Do not release into the environment. Collect waste into suitable containers and contact hazardous chemical disposal company.

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/ADN Class:	3 Flammable Liquid
ICAO Class/Division:	3
IMDG Class:	3
Transport Labels	
	
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	
	
14.6 Special precautions for user	
No additional data available.	
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
	<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>
15.2	Chemical safety assessment
	No additional information available.

16. OTHER INFORMATION

Hazard and/or Precautionary Statements in Full	<p>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.</p>
Other Information	None.
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