





MATERIAL SAFETY DATA SHEET

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

1.1 Product Identifier					
Product Name		Grapefruit Essential Oil			
Biological Definition		Citrus Paradisi Peel Oil is the volatile oil expressed from the peel of the Grapefruit, <i>Citrus paradisi</i> , Rutaceae.			
INCI Name		Citrus Paradisi Peel Oil			
Synonyms & Trade Names		Grapefruit Essential Oil			
CAS-No	8016-20-4	EC No.	289-904-6	EINECS No.	289-904-6
1.2 Relative identified uses of the substance or mixture and uses advised against					
No additional data 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)					
Flammable Liquid, Hazard Category 3 - H226 Skin Corrosion / Irritation Category 2 - H315 Sensitization - Skin Category 1 - H317 Aspiration Hazard Category 1 - H304 Hazardous to the aquatic environment - Acute hazard, Category 1 (Aquatic Acute 1, H400). Hazardous to the Aquatic Environment – Aquatic Chronic Category 1 - H410					
2.2 Label Elements					
Label in accordance with (EC) No 1272/2008					
GHS08		GHS07		GHS02	
GHS09					
					
					
Signal Word			Danger.		
Contains			(R)-P-MENTHA-1,8-DIENE, 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 and hot surfaces. - No smoking.
 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.
 P391, Collect spillage.

Supplementary Precautionary Statements

P201 Obtain special instructions before use.
 P202 Do not handle until all safety precautions have been read and understood.
 P272 Contaminated work clothing should not be allowed out of the workplace.
 P273 Avoid release to the environment.
 P261 Avoid breathing vapour/spray.
 P321 Specific treatment (see medical advice on this label).
 P302+352 IF ON SKIN: Wash with plenty of soap and water.
 P308+313 IF exposed or concerned: Get medical advice/attention.
 P312 Call a POISON CENTER or doctor/physician if you feel unwell.
 P332+313 If skin irritation occurs: Get medical advice/attention.
 P333+313 If skin irritation or rash occurs: Get medical advice/attention.
 P405 Store locked up.
 P501 Dispose of contents/container to ...

2.3 Other Hazards

PBT or vPvB according to Annex XIII	The substance does not satisfy the PBT or vPvP criteria in
Adverse physio-chemical properties	No additional data available.
Adverse effects on human health	No additional data available.

03. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

95.0% 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, Aquatic Acute 1 - H400, M Acute = 1, Aquatic Chronic 1 - H410, M Chronic = 1

≤ 93.0% Hydrocarbons
 Classification (EC 1272/2008) Acute Tox. 4, H302, Acute Tox. 4, H312

≤ 3.0% Myrcene CAS No: 123-35-3 ; EC No: 204-622-5
 Classification (EC 1272/2008) Flam. Liq. 3 - H226, Asp. Tox. 1 - H304, Skin Irrit. 2, H315, Eye Irrit. 2, H319

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	Most important symptoms and effects, both acute and delayed No additional data available.
4.3	Indication of any immediate medical attention and special treatment needed No additional data available.

05. FIRE-FIGHTING MEASURES

5.1	Extinguishing Media Use: (CO2).
5.2	Special hazards arising from the product On ignition produces thick black smoke. Exposure to decomposition products may be hazardous to health. Do not breathe in smoke. In the event of a fire, the following may be formed: carbon monoxide (CO) and carbon dioxide (CO ₂)
5.3	Advice for firefighters Protective equipment for fire-fighters: Wear Self-contained breathing apparatus. Wear chemical protective clothing.


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.
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 No additional data available.

07. HANDLING AND STORAGE

7.1	Precautions for safe handling Avoid spilling, skin and eye contact. Adopt best manual handling considerations when handling, carrying and dispensing.
7.2	Conditions for safe storage, including any incompatibilities 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
7.3	Specific end use(s) No additional data available

08. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters	
Linalool (CAS: 78-70-6) Ingredient Comments :	No exposure limits noted for ingredient.
8.2 Exposure controls	
Protective Equipment	
	
Process Conditions	Safety shower and eye bath.
Engineering Measures	Provide adequate ventilation. Respiratory equipment. Self-contained breathing apparatus.
Respiratory Equipment	Protection not required if good ventilation is maintained. Use inhalation protection in poorly ventilated areas.
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. Only eliminate by authorised companies.

09. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties	
Appearance	Liquid
Colour	Yellow to Orange.
Odour	Characteristic – Fresh, citrus, Grapefruit.
Relative Density	0.833- 0.860 @ 20°C
Flash Point (°C)	43
Refractive Index	1.460 - 1.480 @ 20°C
Melting Point (°C)	No additional data available.
Boiling Point (°C)	~170.0 ± 10.0 @ 1029 hP
Vapour Pressure	186.4 Pa @25°C
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 additional data available.
10.2 Chemical stability	Stable under the recommended handling and storage conditions.
10.3 Possible hazardous reactions	No additional data available.
10.4 Conditions to Avoid	Avoid heat, sparks and open flames.
10.5 Incompatible materials	Materials To Avoid: Strong acids, alkali or oxidising agents.
10.6 Hazardous Decomposition Products	In case of fire, dangerous decomposition products can be generated, such as carbon monoxide and dioxide and nitrogen fumes and oxides.

11. TOXOLOGICAL INFORMATION

11.1 Information on toxicological effects	
Acute Toxicity	HYDROCARBONS Oral route: LD50 = 800 mg/kg Dermal route: LD50 = 1300 mg/kg
Skin corrosion / irritation	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.
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	Monograph(s) from the IARC (International Agency for Research on Cancer): CAS 5989-27-5 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.
Reproductive toxicity	No additional data available.
STOT-single exposure	No additional data available.
STOT-repeated exposure	No additional data available.
Aspiration hazard	Aspiration toxicity includes severe acute effects such as chemical pneumonia, varying degrees of pulmonary injury or death following aspiration. May be fatal if swallowed and enters airways. Aspiration toxicity includes severe acute effects such as chemical pneumonia, varying degrees of pulmonary injury or death following aspiration.
Photo-toxicity	No additional data available.
Other Information	No additional data available.



12. ECOLOGICAL INFORMATION

12.1 Toxicity	Marine pollutant. Toxic to aquatic life with long lasting effects
12.2 Persistence & degradability	Degradability: No additional data available.
12.3 Bioaccumulation Potential	Bioaccumulative potential: No data available on bioaccumulation.
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	Dispose of in compliance with all local and national regulations.
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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 Flammable Liquid
	ICAO Class/Division:	3 Flammable Liquid
	IMDG Class:	3 Flammable Liquid
	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	ADR/RID	

ADR/RID

Class Code Pack gr. Label Ident. LQ Provis. EQ Cat. Tunnel
3 F1 III 3 30 5 L 601 640E E1 3 D/E

IMDG

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

IATA

Class 2°Label Pack gr. Passenger Passenger Cargo Cargo note EQ
3 - III 355 60 L 366 220 L A3 E1
3 - III Y344 10 L - - A3 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

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. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H312 Harmful in contact with skin. H315 Causes 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</p>
Other Information	None.

DISCLAIMER: This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.