

MATERIAL SAFETY DATA SHEET

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

1.1	Prod	duct Identifier				
Produc	Product Name			t Orange Essen	tial Oil	
Biological Definition		from	Citrus Aurantium Dulcis Peel Oil Expressed is an essential oil expressed from the fresh epicarps of the Sweet Orange, Citrus aurantium L. var. dulcis L. (syn: Citrus sinensis), Rutaceae.			
INCI N	ame		Citrus	S Aurantium Dulc	cis Peel Oil Exp	pressed
Synonyms & Trade Names		Oran	ge Essential Oil			
CAS-No 8028-48-6 E0		EC No.	232-433-8	EINECS No.	232-433-8	
1.2	1.2 Relative identified uses of the substance or mixture and uses advised against			d 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			ingdom NR2 1NR		
1.4	Em	ergency Tel. N	lo.	+44(0)16	603 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 Skin Irrit. 2 - H315; Skin Sens. 1 - H317; Asp. Tox. 1 - H304

Environment Aquatic Chronic 1 - H410

2.2 Label Elements

Label in accordance with (EC) No 1272/2008

GHS08 GHS07 GHS02









GHS09

Signal Word	Danger.	
Contains	Alpha pinene natural, a-terpineol (p-menth-1-en-8-ol), CITRAL, Citronellal, Decanal, d-LIMONENE, Linalool, Myrcene (7-methyl-3-methyleneocta-1,6-diene), Octanal	

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/hot surfaces. - No smoking.

P241 Use explosion-proof electrical/ventilating/lighting/.../equipment.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P262 Do not get in the eyes, on skin, or on clothing.

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

Supplementary Precautionary Statements

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash ... thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace.

P302+352 IF ON SKIN: Wash with plenty of soap and water.

P321 Specific treatment (see ... on this label).

P331 Do NOT induce vomiting.

P332+313 If skin irritation occurs: Get medical advice/attention.

P333+313 If skin irritation or rash occurs: Get medical advice/attention.

P362 Take off contaminated clothing and wash before reuse.

P363 Wash contaminated clothing before reuse.

P370+378 In case of fire: Use ... for extinction.

P391 Collect spillage.

P403+235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P501 Dispose of contents/container according to local regulations.

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	No additional data available.

03. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

≤ 97.0% D-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

1.0 – 5.0% α-Pinene Natural CAS-No: 80-56-8 EC No.: 201-291-9

Classification (EC 1272/2008): Flam. Liq. 3 - H226, Skin Irrit. 2 - H315, Skin Sens. 1 - H317, Asp. Tox. 1 - H304

1.0 – 5.0% a-Terpineol (p-menth-1-en-8-ol) CAS-No: 98-55-5 EC No.: 202-680-6

Classification (EC 1272/2008): Skin Irrit. 2 - H315, Eye Irrit. 2 - H319

1.0 - 5.0% 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

1.0 – 5.0% Citronellal CAS-No: 106-23-0 EC No.: 203-376-6 Classification (EC 1272/2008):

Skin Irrit. 2 - H315, Skin Sens. 1 - H317, Aquatic Chronic 2 - H411

1.0 - 5.0% Decanal CAS-No: 112-31-2 EC No.: 203-957-4

Revision Date: 26/04/18

Classification (EC 1272/2008): Skin Irrit. 2 - H315, Aquatic Chronic 3 - H412



1.0 – 5.0 Linalool CAS-No: 78-70-6 EC No.: 201-134-4

Classification (EC 1272/2008): Skin Irrit. 2 - H315

1.0 – 5.0 % Myrcene (7-methyl-3-methyleneocta-1,6-diene) CAS-No: 123-35-3EC No.: 204-622-5

Classification (EC 1272/2008): Flam. Liq. 3 - H226, Skin Irrit. 2 - H315, Eye Irrit. 2 - H319 Asp. Tox. 1 - H304

1.0 - 5.0 % Octanal CAS-No: 124-13-0 EC No.: 204-683-8

Classification (EC 1272/2008): Flam. Liq. 3 - H226, Skin Irrit. 2 - H315, Eye Irrit. 2 - H319Aquatic Chronic 3 - H412

04. FIRST AID MEASURES

4.1	Description of first aid measures		
Inhalation	Move the exposed person to fresh air at on medical attention if any discomfort continue	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	•	ntamination. Remove contaminated clothing. vater. Get medical attention if any discomfort	
Eye Contact		exposure. Make sure to remove any contact of the state of	
4.2	Most important symptoms and effects, I	ooth acute and delayed	
	No additional data available.		
4.3	Indication of any immediate medical atte	ention and special treatment needed	
	No additional data available.		

05. FIRE-FIGHTING MEASURES

5.1	Extinguishing Media
	Do not use a direct stream of water to extinguish. Use: Powder. Carbon dioxide (CO2).
5.2	Special hazards arising from the product
	Specific hazards: When heated and in case of fire, toxic vapours/gases may be formed.
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	

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Protective Equipment







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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.

Revision Date: 26/04/18



09. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties		
Appearance	Mobile Liquid,	
Colour	Orange to orange-red	
Odour	Characteristic	
Relative Density @ 20°C	0.838 - 0.850	
Flash Point (°C)	>65	
Refractive Index @ 20°C	1.468 - 1.480	
Melting Point (°C)	No additional data available.	
Boiling Point (°C)	176-180	
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		
	No additional data available.	

10. STABILITY AND REACTIVITY

10. 51	ABILITY 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	Toxic to aquatic organisms, may cause long term adverse effects in	
	the aquatic environment.	
Skin corrosion / irritation	May cause sensitisation by skin contact.	
Serious eye damage / irritation	Spray and vapour in the eyes may cause irritation and smarting	
Respiratory or skin sensitisation	In high concentrations, vapours may irritate throat and respiratory	
	system and cause coughing.	
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

12.1	Toxicity	
	The product contains a substance which is toxic to aquatic organisms and which may cause	
	long term adverse effects in the aquatic environment	
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	
	No additional data available.	
12.6	Other adverse effects	
	No additional data available.	

13. DISPOSAL CONSIDERATIONS

13.1	Waste treatment methods
	Dispose of in compliance with all local and national regulations.

14. TRANSPORT INFORMATION

14.1	UN number	
	UN No. Road	1993
	UN No. SEA	1993
	UN No. AIR	1993
14.2	UN proper shipping name	
	None	
14.3	Transport hazard class(es)	
	ADR/RID/ADN Class:	9 Miscellaneous dangerous substances and articles.
	ICAO Class/Division:	9
	IMDG Class:	9
	Transport Labels	



14.4 Packing group

ADR/RID/ADN Packing group	Ш
IMDG Packing group	Ш
ICAO Packing group	Ш

14.5 Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant



14.6 Special precautions for user

EMS	F-E-S-D)
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Hazard No. (ADR) 9



	30 Flammable liquid (flash-point between 23°C and 60°C, inclusive) or flammable liquid or solid in the molten state with a flash-point above 60°C, heated to a temperature equal to or above its flash-point, or self heating liquid.	
	Tunnel Restriction Code (E)	
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

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.

15.2 Chemical safety assessment

No additional information available.

16. OTHER INFORMATION

Hazard and/or Precautionary Statements in Full	H319 Causes serious eye irritation. H315 Causes skin irritation. H226 Flammable liquid and vapour. H412 Harmful to aquatic life with long lasting effects. H304 May be fatal if swallowed and enters airways. H317 May cause an allergic skin reaction. H411 Toxic to aquatic life with long lasting effects. H410 Very toxic to aquatic life with long lasting effects. H400 Very toxic to aquatic life
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.