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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</i> , <i>Rutaceae</i>			
INCI Name		Citrus Reticulata Peel Oil			
Synonyms & Trade Names		-			
CAS-No	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					
Suitable for use in flavour, fragrance cosmetic and professional applications only.					
1.3 Details of the supplier of the safety data sheet					
William Hodgson & Company Unit 3 The Dairy Gawsworth Business Court Shellow Lane North Rode Congleton Cheshire CW12 2FQ.					
1.4 Emergency Tel. No.		+ 44 (0) 1260 222 943			

02. HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture	
The full text for all hazard statements are displayed in Section 16.	
Classification (EC 1272/2008)	
<ul style="list-style-type: none">- Flammable Liquid, Hazard Category 3- Skin Corrosion / Irritation Category 2- Sensitization - Skin Category 1- Aspiration Hazard Category 1- Hazardous to the Aquatic Environment - Acute Hazard Category 1- Hazardous to the Aquatic Environment - Long-term Hazard Category 1	
2.2 Label Elements	
Label in accordance with (EC) No 1272/2008	
Signal Word	Danger.

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Contains	<ul style="list-style-type: none"> - Limonene - Myrcene - α-Pinene - β-Pinene - γ-Terpinene
Hazard Statements	
<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>	
Precautionary Statements	
<p>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.</p>	
Supplementary Precautionary Statements	
<p>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.</p>	
2.3 Other Hazards	
PBT or vPvB according to Annex XIII	No.
Adverse physio-chemical properties	No additional data.
Adverse effects on human health	No additional data.

03. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures	
≤ 98.0% Limonene	

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CAS: 5989-27-5

Classification (EC 1272/2008)

- Flam. Liq. 3 - H226
- Asp. Tox. 1 - H304
- Skin Irrit. 2 - H315
- Skin Sens. 1 - H317
- Aquatic Acute 1 - H400
- Aquatic Chronic 1 - H410

≤ 4.0% Myrcene

CAS: 123-35-3

Classification (EC 1272/2008)

- Flam. Liq. 3 - H226
- Asp. Tox. 1 - H304
- Skin Irrit. 2 - H315
- Eye Irrit. 2 - H319
- Aquatic Acute 1 - H400
- Aquatic Chronic 1 - H410

≤ 2.0% α-Pinene

CAS: 80-56-8

Classification (EC 1272/2008)

- Flam. Liq. 3 - H226
- Acute Tox. 4 - H302
- Asp. Tox. 1 - H304
- Skin Irrit. 2 - H315
- Skin Sens.1 - H317
- Aquatic Acute 1 - H400
- Aquatic Chronic 1 - H410

≤ 1.0% Linalool

CAS: 78-70-6

Classification (EC 1272/2008)

- Skin Irrit. 2 - H315
- Skin Sens.1 - H317
- Eye Irrit. 2 - H319

≤ 1.0% γ-Terpinene (p-mentha-1,4-diene)

CAS: 99-85-4

Classification (EC 1272/2008)

- Flam. Liq. 3 - H226
- Asp Tox. 1 - H304

≤ 1.0% Decanal

CAS: 112-31-2

Classification (EC 1272/2008)

- Eye Irrit. 2 - H319
- Aquatic Chronic 3 - H412

≤ 1.0% β-Pinene

CAS: 127-91-3

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Classification (EC 1272/2008)

- Flam. Liq. 3 - H226
- Asp. Tox. 1 - H304
- Skin Irrit. 2 - H315
- Skin Sens. 1 - H317
- Aquatic Acute 1 - H400
- Aquatic Chronic 1 - H410

≤ 0.2% Citral

CAS: 5392-40-5

Classification (EC 1272/2008)

- Skin Irrit. 2 - H315
- Skin Sens. 1 - H317

04. FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation	Remove from exposure area to fresh air. Obtain medical advice immediately.
Ingestion	Wash mouth out with water and obtain medical advice immediately.
Skin Contact	Remove contaminated clothing. Wash thoroughly with soap and water. Seek medical advice if irritation persists or there is any sign of tissue damage.
Eye Contact	Flush with plenty of water and seek medical advice.

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

Treat symptomatically.

05. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

Suitable extinguishing media:

- Carbon dioxide
- Dry powder
- Foam
- Spray to base of flames.

5.2 Special hazards arising from the product

In case of fire, Carbon monoxide, Unidentified organic compounds may be liberated.

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.

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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.
Remove ignition sources. Ensure adequate ventilation. Absorb with inert, non-combustible, inorganic absorbent material, sweep up and remove to an approved disposal container.
6.4 Reference to other sections
See sections 8 and 13.

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	Provide eyewash station.
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

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	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	Avoid contact with eyes. Wear approved safety 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	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	Approx. 0.857 @ 20°C
Flash Point (°C)	45
Refractive Index	Approx. 1.476 @ 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 normal temperature conditions and recommended use.	
10.3 Possible hazardous reactions	
Not expected under normal temperature conditions and recommended use.	
10.4 Conditions to Avoid	

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Heat, sparks and open flames.

10.5 Incompatible materials

Avoid contact with strong acids, alkalis and oxidising agents.

10.6 Hazardous Decomposition Products

Not expected under normal temperature conditions and recommended use. Thermal decomposition may release/form oxides of carbon (carbon monoxide, carbon dioxide) and other toxic gases.

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
Skin corrosion / irritation	Causes skin irritation.
Serious eye damage / irritation	No additional data available.
Respiratory or skin sensitisation	May cause an allergic skin reaction.
Germ Cell Mutagenicity	Not classified.
Carcinogenicity	Not classified.
Reproductive toxicity	Not classified.
STOT-single exposure	Not classified.
STOT-repeated exposure	Not classified.
Aspiration hazard	May be fatal if swallowed and enters airways.
Photo-toxicity	No additional data available.
Other Information	No additional data available.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

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.

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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.
IMDG Class: 3 Flammable Liquid.
ICAO Class/Division: 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

No additional data available.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code

No additional data available.

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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	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. H400 - Very toxic to aquatic life. H410 - Very toxic to aquatic life with long lasting effects. H412 - Harmful to aquatic life with long lasting effects.
Other Information	Complies with REACH guidance for SDS as circulated by ECHA 2011.
Revision Date	19/02/2020
Rev No	6

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.