



24 CHATHAM PLACE, BRIGHTON, BN1 3TN (UK)
TEL. (UK) 0845 310 8066 International Tel. +44 1273 746505
EMAIL: info@nhrorganicoils.com Web Site: www.nhrorganicoils.com


Safety Data Sheet
Organic Tangerine Essential Oil
(Citrus reticulata)

MATERIAL SAFETY DATA SHEET

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

Product Name	Organic Tangerine Oil		WHC812		
Biological Definition	Citrus Reticulata peel is the volatile oil obtained from the peel of tangerine, Citrus Reticulata, Rutaceae.				
INCI Name	Citrus Reticulata Peel Oil				
Synonyms & Trade Names	-				
Supplier	NHR Organic Oils 24 Chatham Place Brighton, BN1 3TN Tel : +44 1273 746505 E-mail : info@nhrorganicoils.com				
Reach Registration Number <small>(According to EU Reg 1907/2006)</small>	-				
FEMA No.	-	FDA No.	-	CoE No.	-
CAS-No	8003-31-9/84929-38-4	EC No.	284-521-0	EINECS No.	284-521-0

02. HAZARDS IDENTIFICATION

Classification (1999/45)	No additional data			
Classification (EC 1272/2008)	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			
Label in accordance with (EC) No 1272/2008				
Signal Word	Danger			
Contains	limonene, myrcene, pinenes, linalool, citral, decanal.			



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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. 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.



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	<p>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>
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

LIMONENE	≤ 92.0%
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	
MYRCENE	≤ 4.0%
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	
A-PINENE	≤ 2.0%
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	
LINALOOL	≤ 1.0%
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	



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Γ-TERPINENE (P-MENTHA-1,4-DIENE)	≤ 1.0%
CAS NO99-85-4 ; EC NO: 202-794-6 CLASSIFICATION (EC 1272/2008) FLAM. LIQ. 3 – H226, ASP TOX. 1 – H304;	
DECANAL	≤ 1.0%
CAS NO: 112-31-2; EC NO: 203-872-5 CLASSIFICATION (EC 1272/2008) SKIN IRRIT. 2 - H315, AQUATIC CHRONIC 3 - H412	
B-PINENE	≤ 1.0%
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	



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CITRAL**≤ 0.4%**

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

General Information	Always remove contaminated clothing immediately.
Inhalation	Get medical attention immediately. Remove from exposure site to fresh air, keep at rest, and obtain medical attention.
Ingestion	get medical attention immediately. Rinse mouth with water and obtain medical attention.
Skin Contact	Remove contaminated clothes. Wash thoroughly with soap and water. Contact physician if irritation persists.
Eye Contact	Flush immediately with water for at least 15 minutes. Contact physician if symptoms persist.

05. FIRE-FIGHTING MEASURES

Extinguishing Media	foam, co2, dry chemical powder.
Special Fire Fighting Procedures	No additional data
Specific Hazards	burning produces irritating, toxic and obnoxious fumes
Protective Measures in Fire	wear positive-pressure self-contained breathing apparatus (scba) and appropriate protective clothing.

06. ACCIDENTAL RELEASE MEASURES

Personal Precautions	ensure adequate ventilation of the working area, evacuate personnel to safe area, wear suitable protective equipment. No smoking, sparks, flames or other sources of ignition near spillage. Avoid contact with skin, eyes and clothing.
Environmental Precautions	do not discharge into drains, water courses or onto the ground. Dispose of in line with local authority guidelines.



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Spill Clean Up Methods	remove ignition sources. Provide adequate ventilation. Avoid excessive inhalation of vapours. Contain spillage immediately by use of sand or inert powder. Dispose of according to local regulations.
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07. HANDLING AND STORAGE

Usage Precautions	Handle in accordance with good hygiene and safety practice. Keep away from heat, sparks, open flames and hot surfaces. - no smoking. Use personal protective equipment as required. Use in accordance with good manufacturing and industrial
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	hygiene practices. Use in areas with adequate ventilation do not eat, drink or smoke when using this product.
Storage Precautions	keep the product container tightly closed, in a dry, ventilated area. Keep away from potential sources of ignition and protected from light. Maintain limited contact with oxygen.

08. EXPOSURE CONTROLS/PERSONAL PROTECTION

Protective Equipment	 
Engineering Measures	None.
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	wear protective gloves/eye protection/face protection.
Eye Protection	wear protective gloves/eye protection/face protection.
Other Protection	wear suitable protection to avoid contact with skin and eyes. Do not inhale vapours.
Hygiene Measures	good personal hygiene practices are always advisable, especially when working with chemicals / oils.

09. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	liquid
Colour	orange to dark orange.
Odour	characteristic. Sweet citrus, tangerine.



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Relative Density	0.844 – 0.870 @ 20°C
Flash Point (°C)	45°C
Refractive Index	1.471 to 1.482 @ 20°C
Melting Point (°C)	No additional data
Boiling Point (°C)	No additional data
Vapour Pressure	No additional data



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Solubility in Water @20°C	insoluble in water
Auto-ignition temperature (°C)	No additional data

10. STABILITY AND REACTIVITY

Stability	Stable under suggested storage conditions (<15°C).
Conditions to Avoid	storage at high temperatures. Do not store above 15°C.
Materials to Avoid	P.V.C
Hazardous Decomposition Products	this product does not decompose under normal conditions. Under fire conditions the product will produce a mixture of irritating fumes & smoke & carbon monoxide

11. TOXOLOGICAL INFORMATION

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	not classified as irritating to the eye (source csr)
Respiratory or skin sensitisation	may cause an allergic skin reaction.
Germ Cell Mutagenicity	no data
Carcinogenicity	Not applicable.



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Reproductive toxicity	Not applicable.
STOT-single exposure	Not applicable.
STOT-repeated exposure	Not applicable.



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Aspiration hazard	May be fatal if swallowed and enters airways.
Photo-toxicity	No data
Other Information	No data

12. ECOLOGICAL INFORMATION

Ecotoxicity	toxic to aquatic life with long lasting effects
Mobility	considered as a readily biodegradable ncs. Based on the ready biodegradability of the ncs, simulation tests in surface water, sediment and soil are not required in accordance with effects
Persistence & Biodegradability	to be considered as readily biodegradable based on its ready biodegradability. Oil does not fulfil the criteria for persistence.
Bioaccumulation Potential	bio-accumulation potential
PBT Assessment Results	This substance does not meet the pbt/vpvb criteria of reach, annex xiii.
Precautions	Do not allow product to enter streams, sewers or other waterways.

13. DISPOSAL CONSIDERATIONS

Disposal Methods	Always recover spilled product. Discard waste material with authorized waste management services. Act in accordance with local & national waste regulations.
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14. TRANSPORT INFORMATION

Warning Icon	
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Proper Shipping Name	EXTRACTS, AROMATIC, LIQUID.
UN No. Road	1169
ADR Class	3 FLAMMABLE LIQUID.



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Hazard No (ADR)	No additional data.
Hazchem Code	No additional data.
UN No. SEA	1169
IMDG Class	3 FLAMMABLE LIQUID.
IMDG Pack Gr.	III
EMS	No additional data.
UN No. AIR	1169
Air Class	3 FLAMMABLE LIQUID.
Air Pack Gr.	III

15. REGULATORY INFORMATION

EU Directives	regulation (ec) no 1907/2006 of the european parliament and of the council of 18th december 2006. Concerning the registration, evaluation, authorization & restriction of chemicals (reach), establishing a european chemicals agency, amending directive 1999/45/ec and repealing council regulation (eec) no793/93 & commission regulation (ec) no1488/94 as well as council directive 76/769/eec & commission directive 91/155/ecc, 93/67/ecc, 93/105/eec & 2000/21/ec (including amendments).
Statutory Instruments	the chemicals (hazard information & packaging for supply regulations 2009 (s.i.2009 no 716).
Approved Code of Practice	classification & labelling of substances & preparations dangerous for supply. Safety data sheets for substances & preparations.



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Guidance Notes	Workplace exposure limits eh40. Chip for everyone hsg 108.
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16. OTHER INFORMATION

Revision Date	21.05.2018
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Rev No/Repl, SDS Generated	1
Risk Phrases in Full	-
Hazard Statements in Full	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
Other Information	-

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.