




24 CHATHAM PLACE, BRIGHTON BN1 3TN (UK)
TEL.(UK) 0845 310 8066 FAX.(UK) 0845 310 8068
International Tel. +44 1273 746505 Int. Fax. +44 1273 202729
EMAIL: info@nhrorganic oils.com Web Site: www.nhrorganic oils.com

Safety Data Sheet

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

Product Name	Petitgrain oil Organic				
Biological Definition	The volatile oil obtained by steam distillation of the branches, twigs and leaves of an acclimatised variety of the Bitter Orange Tree <i>Citrus aurantium</i> L. subsp. <i>aurantium</i> .				
INCI Name	Citrus Aurantium Amara Leaf/Twig Oil.				
Synonyms & Trade Names	---				
Supplier	NHR Organic Oils, 24 CHATHAM PLACE, BRIGHTON, BN1 3TN, UK TEL.(UK) 0845 310 8066				
Reach Registration Number <small>(According to EU Reg 1907/2006)</small>	N/A				
FEMA No.	2855	FDA No.	§182.20	CoE No.	142
CAS-No	68916-04-1 / 72968-50-4	EC No.	277-143-2	EINECS No.	277-143-2

02. HAZARDS IDENTIFICATION

Classification (1999/45)	Xi, R38-41- 43-51/53, S24-37
Classification (EC 1272/2008)	UN-GHS: FL 4, SCI 2, SS 1, EDI 1, EH A2,C3 EU-CLP: SCI 2, SS 1, EDI 1
Label in accordance with (EC) No 1272/2008	 GHS02 GHS05 GHS07 GHS09
Signal Word	Danger
Contains	Linalyl acetate, linalool, alpha-terpineol, geranyl acetate, geraniol, ocimenes, myrcene, neryl acetate, limonene, pinenes, nerol, beta-caryophyllene.
Hazard Statements	H226 Flammable liquid & vapour H315 Causes skin irritation H317 May cause an allergic skin reaction H318 Causes serious eye damage H411 Toxic to aquatic life with long-lasting effects
Precautionary Statements	P262 Do not get in eyes, on skin or on clothing P280 Wear protective gloves/protective clothing/eye protection/face protection P305/351/338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Supplementary Precautionary Statements	---
PBT or vPvB according to Annex XIII	No
Adverse physio-chemical properties	Combustible but will not self-ignite
Adverse effects on human health	Repeated or prolonged skin contact may cause sensitisation



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03. COMPOSITION/INFORMATION ON INGREDIENTS

50% Linalyl acetate CAS: 115-95-7 UN-GHS: EDI 2A, EHA 2, SCI 2
25% Linalool CAS: 78-70-6 UN-GHS: ATO 5(3000), EDI 2A, EH A3, SCI 2
5% alpha-Terpineol CAS: 98-55-5 UN-GHS: ATO 5(4300); SCI 2; EDI 2A
4% Geranyl acetate CAS: 105-87-3 UN-GHS: SCI 3; EH A2,C2
3% Geraniol CAS: 106-24-1 UN-GHS: ATO 5(4200); SCI 2; EDI 1; SS 1; EH A2
3% Ocimenes CAS (beta isomer): 13877-91-3 UN-GHS: SCI 3
2% Myrcene CAS: 123-35-3 UN-GHS: EDI 2A, SCI 2
2% Neryl acetate CAS: 141-12-8 UN-GHS: NC
1% Limonene CAS:: 5989-27-5 UN-GHS: SCI 2; SS 1; EH A1,C1
1% Pinenes CAS (beta isomer): 127-91-3 UN-GHS: ATO 5(3700), SCI 2, SS 1
1% Nerol CAS: 106-25-2 UN-GHS: ATO 5(4500), EDI 2A, EH A3, SCI 2
1% beta-Caryophyllene CAS: 87-44-5 UN-GHS: SCI 3

04. FIRST AID MEASURES

General Information	See categories below
Inhalation	Remove from exposure area to fresh air. Contact a doctor if necessary.
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 if necessary.

05. FIRE-FIGHTING MEASURES

Extinguishing Media	Use CO ₂ , Dry Powder or Foam type extinguishers, spraying extinguishing media to base of flames. Do not use direct water jet on burning material.
Special Fire Fighting Procedures	Wear protective clothing. Avoid inhalation of vapours.
Specific Hazards	None
Protective Measures in Fire	Closed containers may build up pressure when exposed to heat and should be cooled with water spray

06. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Maintain good occupational and personal hygiene. Avoid contact with skin and eyes
Environmental Precautions	Do not discharge directly into drains or soil. Keep away from surface and ground water



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Spill Clean Up Methods	Soak up spillage with sand or other inert material. Transfer soaked material to suitable waste container and dispose according to prevailing regulations.
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07. HANDLING AND STORAGE

Usage Precautions	Apply good manufacturing practice & industrial hygiene practices, ensuring proper workplace ventilation. Observe good personal hygiene, and do not eat, drink or smoke whilst handling.
Storage Precautions	Store in tightly closed original container, in a cool, dry & ventilated area away from heat sources & protected from light. Keep air contact to a minimum.

08. EXPOSURE CONTROLS/PERSONAL PROTECTION

Protective Equipment	  Goggles Gloves
Engineering Measures	Ensure good ventilation of working area.
Respiratory Equipment	As required. Avoid breathing product vapour.
Hand Protection	Avoid all skin contact. Use chemically resistant gloves if required.
Eye Protection	Use safety glasses.
Other Protection	As required
Hygiene Measures	Wash hands with soap & water after handling

09. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid
Colour	Pale yellow to yellow brown
Odour	Characteristic
Relative Density	0.882 to 0.893 @ 20°C
Flash Point (°C)	66 c/c
Refractive Index	1.450 to 1.465 @ 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	Negligible
Auto-ignition temperature (°C)	No additional data available

10. STABILITY AND REACTIVITY

Stability	It presents no significant reactivity hazards, by itself or in contact with water.
Conditions to Avoid	Avoid storage temperatures above 25°C



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Materials to Avoid	Avoid contact with strong acids, alkalis and oxidising agents.
Hazardous Decomposition Products	Liable to cause smoke & acrid fumes during combustion: carbon monoxide, carbon dioxide & other non-identified organic compounds may be formed.

11. TOXOLOGICAL INFORMATION

Acute Toxicity	Acute oral toxicity: LD50 orl-rat >5g/kg <i>FCT 20,801</i> (1982) Special issue VI; LD50 orl-rat >5g/kg <i>FCT 30, 101S</i> (1992).
Skin corrosion / irritation	Non-irritant at 8% <i>FCT 20,801</i> (1982) Special issue VI. However skin corrosion Hazard Category 2 under EC1272/2008 guidelines.
Serious eye damage / irritation	Potential for eye damage: wear eye/face protection when handling. 2/2008 guidelines Hazard Category 1 under EC 1272/2008 guidelines
Respiratory or skin sensitisation	Non skin-sensitising at 8% <i>FCT 20,801</i> (1982) Special issue VI. However Skin sensitiser Hazard Category 1 under EC 1272/2008 guidelines
Germ Cell Mutagenicity	Not listed as mutagenic
Carcinogenicity	Not listed as carcinogenic
Reproductive toxicity	Not listed as reprotoxic
STOT-single exposure	No additional data available
STOT-repeated exposure	No additional data available
Aspiration hazard	Not listed under EC 1272/2008 guidelines
Photo-toxicity	Not photo-toxic: <i>FCT 20,801</i> (1982) Special issue VI.
Other Information	None

12. ECOLOGICAL INFORMATION

Ecotoxicity	No weight-of-evidence summary available
Mobility	No additional data available
Persistence & Biodegradability	Not determined, but believed to be 100% biodegradable
Bioaccumulation Potential	Not determined but believed to be low
PBT Assessment Results	No additional data available
Precautions	Avoid discharge into the environment especially into waterways, sewers and the sea.

13. DISPOSAL CONSIDERATIONS

Disposal Methods	Do not release into the environment. Collect waste into suitable containers and contact hazardous chemical disposal company.
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14. TRANSPORT INFORMATION

Warning Icon	
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID N.O.S
UN No. Road	UN 3082
ADR Class	Class 9
Hazard No (ADR)	90
Hazchem Code	•3Z
UN No. SEA	UN 3082
IMDG Class	Class 9
IMDG Pack Gr.	Pk Gp III
EMS	F-A, S-F
UN No. AIR	UN 3082
Air Class	Class 9
Air Pack Gr.	Pk Gp III

15. REGULATORY INFORMATION

EU Directives	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 th Dec 2006 Concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 199/45/EC and repealing Council Regulation Council Regulation (EEC) No793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, and 93/105/EEC and 2000/21/EC including amendments.
Statutory Instruments	The Chemicals (Hazard Information and Packaging for Supply Regulations 2009 (S.I. 2009 No 716).
Approved Code of Practice	Classification and Labelling of Substances and Preparations Dangerous for Supply. Safety Data Sheets for Substances and Preparations
Guidance Notes	Workplace Exposure Limits EH40. CHIP for everyone HSG 108.

16. OTHER INFORMATION

Revision Date	05/2015
Rev No/Repl, SDS Generated	1
Risk Phrases in Full	R38 Irritating to skin R41 Risk of serious damage to eyes R43 May cause sensitisation by skin contact R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.



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Hazard Statements in Full	H226 Flammable liquid & vapour H315 Causes skin irritation H317 May cause an allergic skin reaction H318 Causes serious eye damage H411 Toxic to aquatic life with long-lasting effects
Other Information	Complies with REACH guidance for SDS as circulated by ECHA 2011.

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.