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MATERIAL SAFETY DATA SHEET

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





| 1:1-Product Identifiers: | | | | | |
|---------------------------|---|---------|---|------------|--------|
| Product name | Clementine Oil | | | | WHC646 |
| Biological Definition | Essential oil extracted by cold expression from the outer part of fresh clementine peel <i>Citrus clementina</i> , Rutaceae | | | | |
| INCI Name | Citrus Clementina Peel Oil | | | | |
| Synonyms & Trade Names | - | | | | |
| Reach Registration Number | - | | | | |
| FEMA No. | - | FDA No. | - | CoE No. | - |
| CAS-No | - | EC No. | - | EINECS No. | - |

| 1:2 – Relevant Identified Uses of the substance or mixture and uses advised against: | |
|--|--|
| Identified Uses | No additional data available. |
| 1:3 – Details of the supplier of the Safety data sheets. | |
| Company Name | The Soap Kitchen, Unit 8 Caddsdwn Industrial Park Clovelly Road, Bideford, EX39 3DX |
| 1:4 – Emergency Telephone number | |
| Contact telephone number | 07795 414 061 |

02. HAZARDS 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) | UN-GHS: FL 3, AH 1, SCI 2, SS 1, EH A1,C1 EU-CLP: FL 3, AH 1, SCI 2, SS 1, EH A1,C1 |

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| 2.2 – Label Elements | |
|---|---|
| Label Elements in accordance with (EC) No 1272/2008 | <div>GHS02</div>  <div>GHS07</div>  <div>GHS08</div>  <div>GHS09</div>  |
| 2:3 - Other hazards | |
| Signal Word | Danger |
| Contains | Limonene, myrcene, gamma-terpinene, pinenes. |
| 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/light/.../equipment. P262 Do not get in eyes, on skin or on clothing. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection. P301/310 IF SWALLOWED immediately call a POISON CENTRE 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. |
| Supplementary Precautionary Statements | P405 Store locked up P501 Dispose of product/container in accordance with local regulations |
| 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

| 3:1 - Substances | |
|------------------|------------------------------|
| Substances | No additional data available |
| 3:2 - Mixtures | |

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Mixtures

| | |
|--|----------------|
| Limonene | ≤ 98.4% |
| 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 | ≤ 2.0% |
| 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 | |
| Gamma Terpinene | ≤ 2.0% |
| CAS No: 99-85-4 EC No: 202-794-6 | |
| Classification (EC 1272/2008) Flam. Liq. 3 – H226, Asp Tox. 1 –H304 | |
| Pinenes | ≤ 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 | |

04. FIRST AID MEASURES

4:1 – Description of first aid measures

| | |
|--------------|--|
| 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. |

4:2 – Most important symptoms and effects, both acute and delayed

| | |
|----------------------|------------------------------|
| Symptoms and effects | No additional data available |
|----------------------|------------------------------|

4:3 – Indication of any immediate medical attention and special treatment needed

| | |
|----------------------|------------------------------|
| Special requirements | No additional data available |
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05. FIRE-FIGHTING MEASURES

| 5:1 - Extinguishing Media | |
|---|--|
| Suitable extinguishing Media | Suitable extinguishing media: CO2, Dry powder, Foam. Spray to base of flames. |
| Unsuitable extinguishing Media-DO NOT USE | Direct Water jet |
| 5:2 - Special Hazards arising from substance or mixture | |
| Specific hazards | None known |
| 5:3 – Advice for firefighters | |
| Special firefighting procedures/ protective actions. | Wear protective clothing. Avoid inhalation of vapours. Closed containers may build up pressure when exposed to heat and should be cooled with water spray. |

06. ACCIDENTAL RELEASE MEASURES



| 6:1 - Personal Precautions, protective equipment and emergency procedures. | |
|--|--|
| Personal precautions | Wear protective clothing as described in Section 8 of this safety data sheet. Maintain good occupational and personal hygiene. Avoid contact with skin and eyes. |
| 6:2 - Environmental Precautions | |
| Environmental Precautions | Do not discharge into drains or watercourses or onto the ground |
| 6:3 – Methods and materials for containment and cleaning up | |
| Spill Clean Up Methods | Absorb with inert, non-combustible, inorganic absorbent material, sweep up and remove to an approved disposal container. |
| 6:4 – Reference to other sections | |
| Reference to other sections | No additional data |

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07. HANDLING AND STORAGE

| 7:1 – Precautions for safe handling | |
|---|---|
| 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. |
| 7:2 – Conditions for safe Storage including any incompatibilities | |
| 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. |
| Suitable Packaging | No additional data |
| 7:3 – Specific end use (s) | |
| End Uses | No additional data |

08. EXPOSURE CONTROLS/PERSONAL PROTECTION

| 8:1 – Control parameters | |
|--|---|
| Components with workplace 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 | As required. Avoid inhalation of vapours. |
| 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. |

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| | |
|---------------------------------|---|
| 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

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|---|---|
| 9:1 - Information on basic physical and chemical properties. | |
| Appearance | Liquid, yellow orange to orange red. |
| Colour | Yellow orange to orange red. |
| Odour | Characteristic – Citrus, clementine. |
| Relative Density | Approx. 0.851 @ 20°C |
| Flash Point (°C) | 45 |
| Refractive Index | Approx. 1.475 @ 20°C |
| Melting Point (°C) | No additional data |
| Boiling Point (°C) | Initial: 176°C ± 10°C @ 1026 hPa (lit.) |
| Vapour Pressure | 186.4 Pa @ 25°C (lit.) |
| Solubility in Water @20°C | Negligible. |
| Auto-ignition temperature (°C) | 235 (lit.) |
| 9:2 - Other information | |
| Other Information | No additional data |

10. STABILITY AND REACTIVITY

| | |
|--|---|
| 10:1- Reactivity | |
| Reactivity | Presents no significant reactivity hazards, by itself or in contact with water. |
| 10:2 - Chemical stability | |
| Stability | Stable under the recommended handling and storage conditions |
| 10:3 - Possibility of hazardous reactions | |
| Possible hazardous reactions | No additional data available. |

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10:4 - Conditions to avoid

| | |
|---------------------|---|
| Conditions to Avoid | Heat, sparks and open flames. Avoid storage temperatures of above 25°C. |
|---------------------|---|

10:5 – Incompatible materials

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|------------------------|--|
| Incompatible materials | Strong oxidising agents, strong acids, strong alkalis. |
|------------------------|--|

10:6 - Hazardous Decomposition Products

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| Hazardous Decomposition Products | Liable to cause smoke & acrid fumes during combustion: carbon monoxide, carbon dioxide & other non-identified organic compounds may be formed. |
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11. TOXOLOGICAL INFORMATION

11:1 Information on toxicological effects

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|-----------------------------------|--|
| Acute Toxicity | Acute oral toxicity LD50 (orl-rat): 5g/kg (RIFM data). |
| Skin corrosion / irritation | Causes skin irritation (H315). |
| Serious eye damage / irritation | Not classified as irritating to the eye (RIFM data). |
| Respiratory or skin sensitisation | May cause an allergic skin reaction (H317). |
| Germ Cell Mutagenicity | No additional data |
| Carcinogenicity | No additional data |
| Reproductive toxicity | No additional data |
| STOT-single exposure | No additional data |
| STOT-repeated exposure | No additional data |
| Aspiration hazard | May be fatal if swallowed and enters airways (H304). |
| Photo-toxicity | No additional data |
| Other Information | No additional data |

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12. ECOLOGICAL INFORMATION

| | |
|---|--|
| 12:1- Toxicity | |
| Ecotoxicity | Marine pollutant |
| 12:2 - Persistence & degradability | |
| Persistence & degradability | Expected to be 100% biodegradable |
| 12:3 - Bioaccumulative Potential | |
| Bioaccumulative Potential | Classed as H410 – very toxic with long-lasting effects. |
| 12:4 – Mobility in soil | |
| Mobility | No additional data |
| 12:5 – Results of PBT and vPvB assessment | |
| PBT Assessment Results | Not classified as PBT or vPvB. |
| 12:6 Other adverse effects | |
| Precautions | Do not discharge into the environment especially not into waterways, sewers and the sea. |


13. DISPOSAL CONSIDERATIONS

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|------------------------------|--|
| 13:1 Waste treatment methods | |
| Disposal Methods | Do not release into the environment. Collect waste into suitable containers and contact hazardous chemical disposal company. |

14. TRANSPORT INFORMATION

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|--------------------------|---|
| Warning Icon |  |
| 14:1 – UN Number | |
| UN No Road – ADR/RID/ADN | UN1169 |
| UN No Sea- IMDG | UN1169 |

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| UN No Air – IATA | UN1169 |
| 14:2 – UN proper shipping name | |
| Un proper shipping name | Extracts, Aromatic, Liquid. |
| 14:3 – Transport Hazard class (es) | |
| ADR/RID/ADN Class | 3 Flammable Liquid. ADR Hazard No: 30 |
| IMDG Class | 3 Flammable Liquid |
| IATA Class | 3 Flammable Liquid |
| 14:4 - Packaging group | |
| ADR/RID/ADN packing group | III |
| IMDG Packing Group | III |
| ICAO Packing group | III |
| 14:5 – Environmental hazard | |
| Environmentally hazardous substance/ marine pollutant. | Environmentally Hazardous Substance/Marine Pollutant.  |
| 14:6 - Special precautions for user | |
| Precautions | HazChem Code: •3YE EMS: F-E, S-D |
| 14:7 – Transport in bulk according to Annex II of MARPOL 73/79 and the IBC code | |
| | No additional data |

15. REGULATORY INFORMATION

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|--|---|
| 15:1 – Safety, health and environmental regulations/ legislation specific for the substance or mixture. | |
| EU Directives | Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, |

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| | 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 |
| Statutory Instruments | The Chemicals (Hazard Information and Packaging for Supply Regulations 2009 (S.I. 2009 No 716). |
| Approved Code of Practice | - |
| Guidance Notes | Workplace Exposure Limits EH40. CHIP for everyone HSG 108. |
| 15:2 Chemical Safety assessment | |
| Assessment information | No additional data |

16. OTHER INFORMATION

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|----------------------------|---|
| Revision Date | 14/12/2018 |
| Rev No/Repl, SDS Generated | V6 (replaces v5) |
| Risk Phrases in Full | None |
| 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 | 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.



EC Feed Hygiene Registration No: GB/703/E3008