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

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| --- | --- |
| Product Name | **Grapefruit oil White** |
| Biological Definition | The volatile oil obtained from the mechanical pressing of the outer rinds of the grapefruit *Citrus paradisi* Macf. |
| INCI Name | Citrus paradisi peel oil |
| Synonyms & Trade Names | Grapefruit oil |
| FEMA No. | 2530 | FDA No. | §182.20 | CoE No. | 140 |
| CAS-No | 8016-20-4 | EC No. | 289-904-6 | EINECS No. | 289-904-6 |

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| --- | --- |
| **1.3** | **Details of the supplier of the safety data sheet** |
| Bomar Ltd, Sea Road, Kilcoole, Co. Wicklow, Ireland |
|  **Emergency Telephone number** | +353 (0)1 2875110 |

## 02. HAZARDS IDENTIFICATION

|  |  |
| --- | --- |
| Classification (1999/45) | Xn+N; R10-38-43-50/53-65, S24-37-61-62 |
| Classification (EC 1272/2008) | UN-GHS: FL 3, AH 1, SCI 2, SS 1, EH A1,C1EU-CLP: FL 3, AH 1, SCI 2, SS 1, EH A1,C1 |
| Label in accordance with (EC) No 1272/2008 | flamme Icon  Description automatically generated GHS08 A picture containing text, clipart, sign  Description automatically generated GHS02 GHS07 GHS08 GHS09 |
| Signal Word | Danger |
| Contains | Limonene, myrcene |
| Hazard Statements | H226 Flammable liquid & vapourH304 May be fatal if swallowed and enters airwaysH315 Causes skin irritationH317 May cause an allergic skin reactionH410 Very toxic to aquatic life with long-lasting effects |
| Precautionary Statements | P262 Do not get in eyes, on skin or on clothingP280 protective gloves/protective clothing/eye protection/face protection.P301/310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.P331 Do NOT induce vomitingP273 Avoid release to the environment |
| Supplementary Precautionary Statements | P391 Collect spillage |
| PBT or vPvB according to Annex XIII | No |
| Adverse physio-chemical properties | Combustible but will not self-ignite |
| Adverse effects on human health | May cause sensitisation by skin contact. |

##### 03. COMPOSITION/INFORMATION ON INGREDIENTS

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| --- |
| 95% Limonene UN-GHS: SCI 2; SS 1; EH A1,C1 |
| 2% Myrcene UN-GHS: EDI 2A, SCI 2 |

##### 04. FIRST AID MEASURES

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| --- | --- |
| 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

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| --- | --- |
| Extinguishing Media | Use CO2, 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 |
| 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.  |

##### 07. HANDLING AND STORAGE

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| 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

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| --- | --- |
| Protective Equipment | https://encrypted-tbn1.gstatic.com/images?q=tbn:ANd9GcRUX2ZZZc52EoGTPCsPmU24BOMpgC2QMNuYAN4jwRp9eX7pBgjCHw  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

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| --- | --- |
| Appearance | Mobile liquid |
| Colour | Yellow |
| Odour | Characteristic |
| Relative Density | 0.843 to 0.860 @ 20⁰C |
| Flash Point (°C) | 43 c/c |
| Refractive Index | 1.468 to 1.480 @ 20⁰C |
| Melting Point (°C) | Not given |
| Boiling Point (°C) | Not given |
| Vapour Pressure | Not given |
| Solubility in Water @20°C | Insoluble |
| Auto-ignition temperature (°C) | Not determined |

##### 10. STABILITY AND REACTIVITY

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| --- | --- |
| Stability | It presents no significant reactivity hazards, by itself or in contact with water. |
| Conditions to Avoid | Avoid storage temperatures above 25⁰C |
| 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

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| --- | --- |
| Acute Toxicity | Acute oral toxicity (orl-rat) >5g/kg Opdyke *FCT*, **12**,3, 723-4 (1974)Dermal toxicity (skn-rbt) >5g/kg Opdyke *FCT*, **12**,3, 723-4 (1974). |
| Skin corrosion / irritation | Skin corrosion/irritation Hazard Category 2 under EC 1272/2008 guidelines. |
| Serious eye damage / irritation | Not listed under EC 1272/2008 guidelines |
| Respiratory or skin sensitisation | Skin Sensitiser Hazard Category 1 under EC 1272/2008 guidelines |
| Germ Cell Mutagenicity | Not listed as a mutagen |
| Carcinogenicity | Not listed as a carcinogen |
| Reproductive toxicity | Not listed as reprotoxic |
| STOT-single exposure | No data found |
| STOT-repeated exposure | No data found |
| Aspiration hazard | Aspiration Hazard Category 1 under EC 1272/2008 guidelines |
| Photo-toxicity | For skin contact leave-on products IFRA (1992) recommends a 4% limit max. for grapefruit oil expressed in the finished product [no restriction for rinse-off products]. |
| Other Information | None |

##### 12. ECOLOGICAL INFORMATION

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| --- | --- |
| Ecotoxicity | Hazardous to the aquatic environment — acute hazard, category acute 1; Hazardous to the aquatic environment — long-term hazard, category chronic 1: under EC 1272/2008 guidelines. |
| Mobility | No data found |
| Persistence & Biodegradability | No data found |
| Bioaccumulation Potential | No data found |
| PBT Assessment Results | No data found |
| Precautions | Avoid discharge into the environment especially into watercourses, sewers and the sea. |

##### 13. DISPOSAL CONSIDERATIONS

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| --- | --- |
| 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 | File:HAZMAT Class 3 Flammable Liquids.png C:\Users\t\Desktop\dang to env.jpg |
| Proper Shipping Name | EXTRACTS, AROMATIC, LIQUID |
| UN No. Road | UN 1169 |
| ADR Class | Class 3 (F1 Flammable liquids) |
| Hazard No (ADR) | 30 |
| Hazchem Code | 3YE |
| UN No. SEA | UN 1169 |
| IMDG Class | Class 3 |
| IMDG Pack Gr. | Pk Gp III |
| EMS | F-E, S-D |
| UN No. AIR | UN 1169 |
| Air Class | Class 3 |
| Air Pack Gr. | Pk. Gp. III |

##### 15. REGULATORY INFORMATION

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| EU Directives | Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18th 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

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| --- | --- |
| Revision Date | 03/2015 |
| Rev No/Repl, SDS Generated | 1 |
| Risk Phrases in Full | R10: Flammable.R38: Irritating to skin.R43: May cause sensitisation by skin contact.R50/53: Very toxic to aquatic organisms may cause long-term adverse effects in the aquatic environment.R65: Harmful: may cause lung damage if swallowed. |
| Hazard Statements in Full | H226 Flammable liquid & vapourH304 May be fatal if swallowed and enters airwaysH315 Causes skin irritationH317 May cause an allergic skin reactionH410 Very toxic to aquatic life with long-lasting effects |
| Other Information | Complies with REACH guidance for SDS as circulated by ECHA 2011. |

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