|  |  |  |  |
| --- | --- | --- | --- |
| **1.3** | **Details of the supplier of the safety data sheet** | | |
| Bomar Ltd,  Sea Road, Kilcoole, Co. Wicklow, Ireland | | | |
| 1.4 **Emergency Telephone number** | | | +353 (0)1 2875110 |

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **1.1** | **Product Identifier** | | | | | |
| Product Name | | | Peppermint Oil Arvensis | | | |
| Biological Definition | | | Mentha Arvensis Herb Oil is an essential oil obtained from the herbs of the Corn Mint, *Mentha arvensis L., Labiatae*. | | | |
| INCI Name | | | Mentha Arvensis Herb Oil | | | |
| Synonyms & Trade Names | | | Cornmint Oil | | | |
| CAS-No | | 90063-97-1 | EC No. | 290-058-5 | EINECS No. | 290-058-5 |
| **1.2** | **Relative identified uses of the substance or mixture and uses advised against** | | | | | |
|  | Suitable for use in Cosmetics, Flavour, Fragrance and professional applications only. | | | | | |

## 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) | | | |
|  | Physical hazards:Not classified.  Health hazards: Acute Tox. 4 – H302, Asp. Tox. 1 - H304, Skin Irrit. 2 - H315, Skin Sens. 1 - H317,  Eye Irrit. 2 - H319  Environmental hazards:Aquatic Chronic 2 - H411 | | |
| **2.2** | | **Label Elements** | |
| Label in accordance with (EC) No 1272/2008 | | | |
|  | GHS08 GHS07 GHS09 | | |
| Signal Word | | | Danger |
| Contains | | | d-Limonene, alpha-Pinene, beta-Pinene, beta-Caryophyllene |
| Hazard Statements | | | |
|  | 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.  H411 Toxic to aquatic life with long lasting effects. | | |

|  |  |  |  |
| --- | --- | --- | --- |
| Precautionary Statements | | | |
|  | P261 Avoid breathing vapours/spray.  P273 Avoid release to the environment.  P280 Wear protective gloves/protective clothing/eye protection/face protection.  P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor.  P302+P352 IF ON SKIN: Wash with plenty of water.  P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  P331 Do NOT induce vomiting.  P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  P337+P313 If eye irritation persists: Get medical advice/attention.  P391 Collect spillage.  P501 Dispose of contents in accordance with local, state or national legislation. | | |
| Supplementary Precautionary Statements | | | |
|  | P264 Wash hands and exposed skin thoroughly after handling. | | |
| **2.3** | | **Other Hazards** | |
| PBT or vPvB according to Annex XIII | | | The product is not PBT / vPvB |
| Adverse physio-chemical properties | | | No additional data available. |
| Adverse effects on human health | | | No additional data available. |

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

|  |  |
| --- | --- |
| **3.1** | **Substance** |
|  | **25.0 – 45.0% L-Menthol** CAS No: 2216-51-5 EC No: 218-690-9  Classification (EC 1272/2008) Skin Irrit. 2 - H315, Eye Irrit. 2 – H319 |
|  | **14.0 – 35.0% trans-Menthone** CAS No: 89-80-5 EC No: 201-941-1  Classification (EC 1272/2008) Acute Tox. 4 - H302, Aquatic Chronic 3 - H412 |
|  | **≤ 12.5% d-Limonene** CAS No: 5989-27-5 EC No: 227-813-5    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 – 14.0% Isomenthone** CAS No: 491-07-6 EC No: 207-727-4  Classification (EC 1272/2008) Skin Irrit. 2 - H315, Skin Sens. 1 - H317 |
|  | **2.0 – 10.0% Neo Menthol** CAS No: 2216-52-6 EC No: 218-691-4  Classification (EC 1272/2008) Skin Irrit. 2 - H315 |
|  | **1.0 – 8.0% Methyl Acetate** CAS No: 89-48-5 EC No: 201-911-8  Classification (EC 1272/2008) Aquatic Chronic 2 - H411 |
|  | **≤ 4.0% alpha-Pinene** CAS No: 80-56-8 EC No: 201-291-9  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 |
|  | **≤ 3.0% beta-Pinene**  CAS No: 127-91-3 EC No: 204-872-5  Classification (EC 1272/2008) 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 |
|  | **≤ 2.5% Isopulegol** CAS No: 7786-67-6 / 89-79-2 EC No: 232-102-8 / 201-940-6  Classification (EC 1272/2008) Acute Tox. 4 - H302, Skin Irrit. 2 -H315, Eye Irrit. 2 – H319 |
|  | **≤ 3.0% beta-Caryophyllene** CAS No: 87-44-5 EC No: 201-746-1    Classification (EC 1272/2008) Asp. Tox. 1 - H304, Skin Sens. 1B - H317 |
|  | **≤ 2.0% Myrcene** CAS No: 123-35-3 EC No: 204-622-5  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 2 - H411 |
|  | **≤ 2.0% Octan-3-ol** CAS No: 589-98-0 EC No: 209-667-4  Classification (EC 1272/2008) Skin Irrit. 2 - H315, Eye Irrit. 2 – H319 |
|  | **≤ 2.0% Pipertone** CAS No: 4573-50-6 EC No: 224-957-0    Classification (EC 1272/2008) Skin Irrit. 2 - H315, Skin Sens.1B - H317, Eye Irrit. 2 - H319 |
|  | **≤ 0.22% Carvone** CAS No: 99-49-0 EC No: 202-759-5    Classification (EC 1272/2008) Acute Tox. 4 - H302, Skin Sens. 1 - H317 |

##### 04. FIRST AID MEASURES

|  |  |  |
| --- | --- | --- |
| **4.1** | **Description of first aid measures** | |
| Inhalation | | Remove from exposure area to fresh air. Get medical advice/attention. |
| Ingestion | | Do not induce vomiting. Ingestion may cause nausea and vomiting. Immediately rinse mouth and provide fresh air. Get medical advice/attention. |
| Skin Contact | | Remove contaminated clothing immediately and wash skin with soap and water. Get medical advice/attention if any discomfort continues. |
| Eye Contact | | Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical advice/attention. Continue to rinse. |
| **4.2** | **Most important symptoms and effects, both acute and delayed** | |
|  | No additional data available. | |
| **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 chemical, foam.  Unsuitable extinguishing media: do not use water jet as an extinguisher, as this may scatter and spread fire. |
| **5.2** | **Special hazards arising from the product** |
|  | A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health. Do not breathe in smoke.  Thermal decomposition or combustion products may include the following substances:  Carbon dioxide (CO2), Carbon monoxide (CO), other toxic gases.  Containers close to fire should be removed or cooled with water. |
| **5.3** | **Advice for firefighters** |
|  | Avoid inhalation of generated fumes or vapours. Wear self-contained breathing apparatus and appropriate protective clothing. |

##### 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. Handle the product using protective gloves resistant to the chemicals exposed. Avoid contact with skin and inhalation of its vapours. Maintain adequate ventilation in the working area after spilling. |
| **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.** |
|  | Absorb with liquid binding material e.g. sand, diatomaceous earth, vermiculite.  Collect in closed and suitable containers for disposal in accordance with local, state or national legislation. Prevent any material from entering drains or waterways. Wash spill site after removal with a detergent. |
| **6.4** | **Reference to other sections** |
|  | Refer to information in Sections 7, 8 and 13. |

##### 07. HANDLING AND STORAGE

|  |  |
| --- | --- |
| **7.1** | **Precautions for safe handling** |
|  | Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Do not eat, drink or smoke when using this product. Wear personal protective equipment. Do not breathe vapours or spray mist. Use only in area provided with adequate ventilation. |
| **7.2** | **Conditions for safe storage, including any incompatibilities** |
|  | Store in tightly-closed, original container in a dry, cool and well-ventilated area, away from potential sources of ignition and protected from light. |
| **7.3** | **Specific end use(s)** |
|  | No additional data available. |

##### 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. |
| Respiratory Equipment | | | Generally unnecessary in a well ventilated area.  If ventilation is insufficient, respiratory protection must be worn. |
| Hand Protection | | | Wear suitable protective gloves that are resistant to chemical agents in accordance with standard EN374. |
| Eye Protection | | | Avoid contact with eyes.  Wear safety goggles in accordance with standard EN166. |
| Other Protection | | | Wear appropriate clothing to prevent any possibility of skin contact. |
| Hygiene Measures | | | Good personal hygiene practices are always advisable, especially when working with chemicals / oils. Do not eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. |
| Personal Protection | | | Use of chemical resistant clothing is recommended when handling. |
| Skin Protection | | | Wear appropriate protective clothing to prevent skin contact.  Work clothing worn by personnel should be laundered regularly.  After contact with the product, all parts of the body that have been exposed must be washed thoroughly. |
| 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 | | Clear liquid, colourless to pale yellow. |
| Colour | | Colourless to pale yellow. |
| Odour | | Characteristic. |
| Relative Density | | Approx. 0.887 @ 20°C |
| Flash Point (°C) | | 62.0 |
| Refractive Index | | Approx. 1.460 @ 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. Stable under normal temperature conditions and recommended use. | |
| **10.2** | | **Chemical stability** |
|  | Stable under the recommended handling and storage conditions in section 7. | |
| **10.3** | | **Possible hazardous reactions** |
|  | Not expected under normal conditions of use. | |
| **10.4** | | **Conditions to Avoid** |
|  | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Prevent storing the product in open containers for long periods so as to prevent product deterioration. | |
| **10.5** | | **Incompatible materials** |
|  | Avoid contact with strong acids, alkalis or 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 | | Harmful if swallowed. |
|  | Skin corrosion / irritation | | Causes skin irritation. |
|  | Serious eye damage / irritation | | Causes serious eye irritation. |
|  | 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** |
|  | Toxic to aquatic life with long lasting effects.  Calculated aquatic toxicity results (REACH data):  Fish 96h-LC50: 3.01 mg/l  Daphnia magna 48h-EC50: 2.43 mg/l  Algae 96h-EC50: 2.63 mg/ | |
| **12.2** | | **Persistence & degradability** |
|  | Readily biodegradable. | |
| **12.3** | | **Bioaccumulation Potential** |
|  | The range of log BCF (Bioconcentration Factor) values for the known constituents of peppermint oil was found to be 1.47 - 4.282 (BCF 30 – 19143). | |
| **12.4** | | **Mobility in soil** |
|  | No additional data available. | |
| **12.5** | | **Results of PBT and vPvB Assessment** |
|  | The product does not contain any substances classified as PBT / vPvB | |
| **12.6** | | **Other adverse effects** |
|  | No additional data available. | |

##### 13. DISPOSAL CONSIDERATIONS

|  |  |  |
| --- | --- | --- |
| **13.1** | | **Waste treatment methods** |
|  | Do not allow entry into drains or waterways.  **Waste:**  Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.  Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.  Do not contaminate the ground or water with waste. Do not dispose of waste into the environment.  **Soiled packaging:**  Empty container completely. Keep label(s) on container.  Dispose of via a certified disposal contractor. | |

##### 14. TRANSPORT INFORMATION

|  |  |  |  |
| --- | --- | --- | --- |
| **14.1** | | **UN number** | |
|  | | UN No. Road | 3082 |
|  | | UN No. SEA | 3082 |
|  | | UN No. AIR | 3082 |
| **14.2** | | **UN proper shipping name** | |
|  | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S | | |
| **14.3** | | **Transport hazard class(es)** | |
|  | ADR/RID  ADR/RID– Class 9  ADR Classification Code – M6  Special provisions – 274 335 375 601  Limited quantities – 5L  Expected quantities – E1  Emergency Action Code – •3Z  IMDG  IMDG – Class 9  Special Provisions – 274 335 375 601  Limited quantities – 5L  Expected quantities – E1  IMDG EMS – F-A, S-F  Stowage and Handling – Category A  ICAO/IATA  ICAO/IATA– Class 9  IATA proper shipping name - ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID N.O.S.  Expected quantities – E1  Transport Labels  Image result for miscellaneous dangerous goods 9 | | |
| **14.4** | | **Packing group** | |
|  | ADR/RID 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** | |
|  | See sections 6 – 8. | | |
| **14.7** | | **Transport in bulk according to Annex II of MARPOL73/78 and the IBC code** | |
|  | Not applicable. | | |

##### 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.  H411 Toxic to aquatic life with long lasting effects.  H412 Harmful to aquatic life with long lasting effects. |
| Other Information | No additional data available. |
| Revision Date | 17/02/2021 |
| Reason for revision | Updated SDS |
| Rev No/Repl, SDS Generated | 05, replaces 04 |

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