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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

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|---|---|
| 1.1 Product Identifier | |
| Product Name: | Toffee Apple Concentrate |
| Product Code (SDS No.): | V20939 |
| 1.2 Relevant identified uses of the substance or mixture and uses advised against: | |
| Use: | Concentrated aromatic raw material. Not for personal use in this form or concentration. For manufacturing use only. |
| Uses advised against: | Any use other than recommended use. |
| 1.3 Details of the supplier of the Safety Data Sheet: | |
| Name of Supplier: | Flavour Warehouse LTD |
| Address: | Global Way, Darwen, Lancashire, BB3 ORW |
| Tel: | +44 1254 460124 |
| E-mail: | tpd@vampirevape.co.uk |
| 1.4 Emergency telephone number | |
| Emergency Phone No. | +44 1254 460124 |
| National Response Center | National Poisons Information Service (Birmingham Centre) |
| Address | City Hospital, Dudley Road, Birmingham, United Kingdom, |
| Emergency Phone No. | +00 448 706 006 266 NHS Direct – 0845 4647 or 111 |

SECTION 2: HAZARDS IDENTIFICATION

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| 2.1 Classification of the substance or mixture | |
| Regulation (EC) No. 1272/2008 (CLP) | Flam. Liq. 3: Flammable liquid and vapour. Skin Sens. 1A: May cause an allergic skin reaction. |
| 2.2 Label elements – According to Regulation (EC) No. 1272/2008 (CLP) | |
| Hazard Pictograms(s) |  GHS02 GHS07 |
| Signal Word(s) | Warning |
| Hazard Statement(s) | H226: Flammable liquid and vapour. H317: May cause an allergic skin reaction |
| Precautionary Statement(s) | P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233: Keep container tightly closed. P261: Avoid breathing dust/fume/gas/mist/vapours/spray. P272: Contaminated work clothing should not be allowed out of the workplace. P280: Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P302+P352: IF ON SKIN: Wash with plenty of water. P333+P313: If skin irritation or rash occurs: Get medical advice/attention. P362+P364: Take off contaminated clothing and wash it before reuse. P370+P378: In case of fire: Use water spray, foam, dry powder or CO2 to extinguish. |

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| | P501: Dispose of contents in accordance with local, state or national legislation. |
| 2.3 Other hazards | |
| | None Known. |
| 2.4 Additional Information | |
| | For full text of H/P Statements see section 16. |

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| 3.1 Substances | | | | | |
|--------------------------------------|-----------------|-----------------------|------|--|---------------------|
| | Not applicable. | | | | |
| 3.2 Mixtures | | | | | |
| HAZARDOUS INGREDIENT(S) | CAS No. | EC No. REACH Reg. No. | %W/W | HAZARD STATEMENT(S) | HAZARD PICTOGRAM(S) |
| Propane-1,2-diol | 57-55-6 | 200-338-0 | >70 | Not Classified | None |
| ethyl acetate | 141-78-6 | 205-500-4 | <3 | Flam. Liq. 2 H225 Eye Irrit. 2 H319 STOT SE 3 H336 | GHS02 GHS07 |
| piperonal | 120-57-0 | 204-409-7 | <2 | Skin Sens. 1 H317 | GHS07 |
| 4-hydroxy-2,5-dimethylfuran2(3H)-one | 3658-77-3 | 222-908-8 | <0.8 | Skin Sens. 1A H317 Eye Irrit. 2 H319 | GHS07 |

SECTION 4: FIRST AID MEASURES

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| 4.1 Description of first aid measures | |
| Inhalation | Treat symptomatically. |
| Skin Contact | Take off immediately all contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see Medical Advice on this label). Rinse skin with water. |
| Eye Contact | Treat symptomatically. |
| Ingestion | Treat symptomatically. |
| 4.2 Most important symptoms and effects, both acute and delayed | |
| | Allergic contact dermatitis. |
| 4.3 Indication of any immediate medical attention and special treatment needed | |
| | Specific treatment (see Medical Advice on this label). Treat symptomatically. |

SECTION 5: FIREFIGHTING MEASURES

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| 5.1 Extinguishing media | |
| Suitable Extinguishing media | Use water spray, foam, dry powder or CO2 to extinguish. |
| Unsuitable extinguishing media | Water jet spray |
| 5.2 Special hazards arising from the substance or mixture | |
| | Flammable liquid and vapour. Combustion or thermal decomposition will evolve toxic and irritant vapours. |
| 5.3 Advice for firefighters | |
| | Fire fighters should wear complete protective clothing including self-contained breathing apparatus. If it is safe to do so, containers should be removed from fire area because they are likely to rupture under fire conditions. |

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| SECTION 6: ACCIDENTAL RELEASE MEASURES | |
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| 6.1 Personal precautions, protective equipment and emergency procedures | |
| | Provide adequate ventilation. Use non-sparking ventilation systems, approved explosion-proof equipment, and intrinsically safe electrical systems. Wear suitable protective clothing, gloves and eye/face protection. |
| 6.2 Environmental precautions | |
| | This material and its container must be disposed of in a safe way. |
| 6.3 Methods and material for containment and cleaning up | |
| | Adsorb spillages onto sand, earth or any suitable adsorbent material. Use vacuum equipment for collecting spilt materials, where practicable. Containers must not be punctured or destroyed by burning, even when empty. |
| 6.4 Reference to other sections | |
| | See Also Section 8, 13. |

| SECTION 7: HANDLING AND STORAGE | |
|---|--|
| 7.1 Precautions for safe handling | |
| | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Use explosion-proof electrical/ventilating/lighting/equipment. Use non-sparking tools. Take action to prevent static discharges. Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. Avoid breathing dust/fume/gas/mist/vapours/spray. |
| 7.2 Conditions for safe storage, including any incompatibilities | |
| | Store in a well-ventilated place. Keep cool. |
| Storage temperature | Ambient. |
| Storage life | Stable under normal conditions. |
| Incompatible materials | None known. |
| 7.3 Specific end use(s) | |
| | Flavour Concentrate for use in producing E-Liquid. |

| SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION | | | | | | |
|---|----------|---------------------|------------------------------------|------------|---------------------------|-------|
| 8.1 Control parameters | | | | | | |
| 8.1.1 Occupational Exposure Limits | | | | | | |
| SUBSTANCE | CAS No. | LTEL (8 hr TWA ppm) | LTEL (8 hr TWA mg/m ³) | STEL (ppm) | STEL (mg/m ³) | Note |
| Propane-1,2-diol total vapour and particulates | 57-55-6 | 150 | 474 | | | |
| Propane-1,2-diol particulates | 57-55-6 | | 10 | | | |
| Propane-1,2-diol total vapour and particulates | 57-55-6 | 150 | 474 | | | Comp. |
| Ethyl acetate | 141-78-6 | 200 | | 400 | | |
| Ethyl acetate | 141-78-6 | 734 | 200 | 1468 | 400 | IOELV |
| 3-Methylbutan-1-ol | 123-51-3 | 100 | 366 | 125 | 458 | |
| Pentyl acetates (all isomers) | 123-92-2 | 50 | 270 | 100 | 541 | |
| Isopentylacetate | 123-92-2 | 50 | 270 | 100 | 540 | IOELV |
| REGION | | | SOURCE | | | |
| EU | | | EU Occupational Exposure Limits | | | |
| UNITED KINGDOM | | | Workplace Exposure Limits (WEL) | | | |
| Remark | | | Notes | | | |

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| IOELV | Indicative Occupational Exposure Limit Value |
|---|--|
| 8.2 Exposure Controls | |
| 8.2.1 Appropriate engineering controls | Use non-sparking ventilation systems, approved explosion-proof equipment, and intrinsically safe electrical systems. Ensure adequate ventilation. A washing facility/water for eye and skin cleaning purposes should be present. |
| 8.2.2 Personal protection equipment | |
| Eye Protection | Wear eye protection with side protection (EN166). |
| Skin Protection | Wear protective clothing and gloves: Impervious gloves (EN 374). |
| Respiratory Protection | Handling of larger amounts a suitable mask with filter type A (EN14387 or EN405) may be appropriate. |
| Thermal Hazards | None known. |
| 8.2.3 Environmental Exposure Controls | Avoid release to the environment. |

| SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES | |
|--|--|
| 9.1 Information on basic physical and chemical properties | |
| Appearance | Liquid |
| Colour | Clear colourless to Straw Colour |
| Odour | Characteristic Toffee Odour |
| Odour threshold | Not known. |
| pH | Not known. |
| Melting point/freezing point | Not known. |
| Initial boiling point and boiling range | Not known. |
| Flash Point | 53.8°C |
| Evaporation rate | Not known. |
| Flammability (solid, gas) | Not known. |
| Upper/lower flammability or explosive limits | Not known. |
| Vapour pressure | Not known. |
| Vapour density | Not known. |
| Density (g/ml) | Not known. |
| Relative density | 1.0301 +/- 0.02 |
| Solubility(ies) | Solubility (Water): Not known. Solubility (other): Not known. |
| Partition coefficient: n-octanol/water | Not known. |
| Auto-ignition temperature | Not known. |
| Decomposition Temperature (°C) | Not known. |
| Viscosity | Not known. |
| Explosive properties | Not known. |
| Oxidising properties | Not known. |
| 9.2 Other Information | |
| | None. |

| SECTION 10: STABILITY AND REACTIVITY | |
|---|---|
| 10.1 Reactivity | None anticipated. |
| 10.2 Chemical Stability | Stable under normal conditions. |
| 10.3 Possibility of hazardous | No hazardous reactions known is used for its intended purpose |

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| | |
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| reactions | |
| 10.4 Conditions to avoid | Avoid friction, sparks, or other means of ignition. |
| 10.5 Incompatible materials | Not known. |
| 10.6 Hazardous decomposition products | No hazardous decomposition products known. |

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| SECTION 11: TOXICOLOGICAL INFORMATION | |
| 11.1 Information on toxicological effects | |
| Acute toxicity – Ingestion | Not classified. |
| Acute toxicity – Skin Contact | Not classified. |
| Acute toxicity – Inhalation | Not classified. |
| Skin corrosion/irritation | Not classified. |
| Serious eye damage/irritation | Not classified. |
| Skin sensitization data | Calculation method: May cause an allergic skin reaction. |
| Respiratory sensitization data | Not classified. |
| Germ cell mutagenicity | Not classified. |
| Carcinogenicity | Not classified. |
| Reproductive toxicity | Not classified. |
| Lactation | Not classified. |
| STOT – single exposure | Not classified. |
| STOT – repeated exposure | Not classified. |
| Aspiration hazard | Not classified. |
| 11.2 Other information | |
| | Not known. |

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| SECTION 12: ECOLOGICAL INFORMATION | |
| 12.1 Toxicity | |
| Toxicity – Aquatic invertebrates | Low toxicity to invertebrates |
| Toxicity – Fish | Low toxicity to fish |
| Toxicity – Algae | Low toxicity to algae. |
| Toxicity – Sediment Compartment | Not classified. |
| Toxicity – Terrestrial Compartment | Not classified. |
| 12.2 Persistence and Degradation | |
| | Not known. |
| 12.3 Bio accumulative potential | |
| | Not known. |
| 12.4 Mobility in soil | |
| | Not known. |
| 12.5 Results of PBT and vPvB assessment | |
| | Not known. |
| 12.6 Other adverse effects | |
| | Not known. |

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| SECTION 13: DISPOSAL CONSIDERATIONS | |
| 13.1 Waste treatment methods | |
| | Disposal should be in accordance with local, state or national legislation. |
| 13.2 Additional Information | |

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| Disposal should be in accordance with local, state or national legislation. |
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| SECTION 14: TRANSPORT INFORMATION | | | |
|--|---------------------------------------|---------------------------------------|---------------------------------------|
| 14.1 UN Number | | | |
| | ADR/RID | IMDG | IATA/ICAO |
| UN Number: | 1197 | 1197 | 1197 |
| 14.2 UN Proper Shipping Name | | | |
| | ADR/RID | IMDG | IATA/ICAO |
| UN Proper Shipping Name: | EXTRACTS, FLAVOURING, LIQUID | EXTRACTS, FLAVOURING, LIQUID | EXTRACTS, FLAVOURING, LIQUID |
| 14.3 Transport Hazard Class(es) | | | |
| | ADR/RID | IMDG | IATA/ICAO |
| Transport Class | 3 | 3 | 3 |
| 14.4 Packing Group | | | |
| | ADR/RID | IMDG | IATA/ICAO |
| Packing Group: | III | III | III |
| 14.5 Environment Hazards | | | |
| | ADR/RID | IMDG | IATA/ICAO |
| Environmental Hazards: | Not classified as a Marine Pollutant. | Not classified as a Marine Pollutant. | Not classified as a Marine Pollutant. |
| 14.6 Special Precautions For User | | | |
| See Section 2 | | | |
| 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | | | |
| | ADR/RID | IMDG | IATA/ICAO |
| Transport In Bulk: | No information available | No information available | No information available |

| SECTION 15: REGULATORY INFORMATION | |
|--|--|
| 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture | |
| | This datasheet has been prepared in accordance with Regulation (EC) 1907/2008. |
| 15.2 Chemical Safety Assessment | |
| | A REACH chemical safety assessment has not been carried out. |

| SECTION 16: OTHER INFORMATION | |
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| The following sections contain revisions or new statements: | |
| LEGEND | |
| Hazard Pictogram(s) | GHS02 GHS07 |
| Hazard classification | Eye Irrit. 2 : Serious eye damage/irritation, Category 2 Flam. Liq. 2 : Flammable liquid, Category 2 Flam. Liq. 3 : Flammable liquid, Category 3 STOT SE 3 : Specific target organ toxicity — single exposure, Category 3 Skin Sens. 1 : Skin sensitization, Category 1 Skin Sens. 1A : Skin sensitization, Category 1A |
| Hazard Statement(s) | H225: Highly flammable liquid and vapour. H226: Flammable liquid and vapour. H317: May cause an allergic skin reaction. H319: Causes serious eye irritation. H336: May cause drowsiness or dizziness. |
| Precautionary Statement(s) | P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition |

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| | <p>sources. No smoking. P233: Keep container tightly closed. P240: Ground and bond container and receiving equipment. P241: Use explosion-proof electrical/ventilating/lighting/equipment. P242: Use non-sparking tools. P243: Take action to prevent static discharges. P261: Avoid breathing dust/fume/gas/mist/vapours/spray. P272: Contaminated work clothing should not be allowed out of the workplace. P280: Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P302+P352: IF ON SKIN: Wash with plenty of water. P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P321: Specific treatment (see Medical Advice on this label). P333+P313: If skin irritation or rash occurs: Get medical advice/attention. P362+P364: Take off contaminated clothing and wash it before reuse. P370+P378: In case of fire: Use water spray, foam, dry powder or CO2 to extinguish. P403+P235: Store in a well-ventilated place. Keep cool. P501: Dispose of contents in accordance with local, state or national legislation</p> | |
| Acronyms | <p>ADN : European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road CAS : Chemical Abstracts Service CLP : Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures DNEL : Derived No Effect Level EC : European Community EINECS : European Inventory of Existing Commercial Chemical Substances IATA : International Air Transport Association IBC : Intermediate Bulk Container ICAO : International Civil Aviation Organization IMDG : International Maritime Dangerous Goods LTEL : Long term exposure limit PBT : Persistent, Bioaccumulative and Toxic PNEC : Predicted No Effect Concentration REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals RID : Regulations concerning the International Carriage of Dangerous Goods by Rail STEL : Short term exposure limit STOT : Specific Target Organ Toxicity UN : United Nations vPvB : very Persistent and very Bioaccumulative</p> | |
| Disclaimers | <p>Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. Flavour Warehouse LTD gives no warranty as to the</p> | |

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