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

1.1 Product Identifier	
Product Name:	Heisenberg Concentrate
Product Code (SDS No.):	V20348
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

2.1 Classification of the substance or mixture	
Regulation (EC) No. 1272/2008 (CLP)	Flam. Liq. 3: Flammable liquid and vapour. Skin Sens. 1: Skin Sensitisation, Category 1.
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. P240: Ground/bond container and receiving equipment. P241: Use explosion-proof electrical/ventilating/lighting/.../equipment. P242: Use only non-sparking tools. P243: Take precautionary measures against static discharge. P261: Avoid breathing dust/fumes/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. P302+P352: IF ON SKIN: Wash with plenty of water P303+P361+P353: IF ON SKIN (or hair): Take off immediately all

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	contaminated clothing. Rinse skin with water/ shower. P321: Specific treatment (see ... on this label). P333+P313: If skin irritation or a rash occurs: Get medical advice/attention. P363: Wash contaminated clothing before reuse. P370+P378: In case of fire: Use ... to extinguish. P403+P235: Store in a well ventilated place. Keep cool. P501: Dispose of contents/container to ... [... in accordance with national regulation.
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	<80	Not Classified	None
Anethole	104-46-1	203-205-5	<2	Asp. Tox. 1 H304 Skin Irrit. 2 H315 Skin Sens. 1 H317 Aquatic Chronic 2 H411	GHS08 GHS07 GHS09

SECTION 4: FIRST AID MEASURES	
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	
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	

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	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

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.
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6.2 Environmental precautions

	Avoid release to the environment. Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.
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6.3 Methods and material for containment and cleaning up

	Adsorb spillages onto sand, earth or any suitable adsorbent material. Contain spillages with sand, earth or any suitable adsorbent material. Earth may be shovelled to contain spillage and to avoid contamination of sewers and watercourses.
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6.4 Reference to other sections

	See Also Section 8, 13.
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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.
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7.2 Conditions for safe storage, including any incompatibilities

	Store in a well-ventilated place. Keep cool.
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Storage temperature

	Ambient.
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Storage life

	Stable under normal conditions.
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Incompatible materials

	None known.
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7.3 Specific end use(s)

	Flavour Concentrate for use in producing E-Liquid.
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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.
2-Methylpropan-1-ol	78-83-1	50	154	75	231	
Pentyl acetates (all isomers)	123-92-2	50	270	100	541	

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Isopentylacetate	123-92-2	50	270	100	540	IOELV
Acetic acid	64-19-7	25	10	50	20	IOELV
Isobutyl acetate	110-19-0	150	724	187	903	
Propionic acid	79-09-4	10	31	15	46	
Propionic acid	79-09-4	10	31	20	62	
REGION			SOURCE			
EU			EU Occupational Exposure Limits			
UNITED KINGDOM			Workplace Exposure Limits (WEL)			
Remark			Notes			
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		Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.				

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES	
9.1 Information on basic physical and chemical properties	
Appearance	Liquid
Colour	Blue
Odour	Characteristic Odour
Odour threshold	Not known.
pH	Not known.
Melting point/freezing point	Not known.
Initial boiling point and boiling range	Not known.
Flash Point	<63°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	1.0181+/- 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.

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Oxidising properties	Not known.
9.2 Other Information	
	None.

SECTION 10: STABILITY AND REACTIVITY	
10.1 Reactivity	None anticipated.
10.2 Chemical Stability	This mixture is stable under the recommended handling and storage conditions in section 7.
10.3 Possibility of hazardous reactions	When exposed to high temperatures, the mixture can release hazardous decomposition products, such as carbon monoxide and dioxide, fumes and nitrogen oxide.
10.4 Conditions to avoid	Any apparatus likely to produce a flame or to have a metallic surface at high temperature (burners, electric arcs, furnaces etc.) must not be allowed on the premises.
10.5 Incompatible materials	Not known.
10.6 Hazardous decomposition products	The thermal decomposition may release/form; Carbon monoxide (CO), Carbon dioxide (CO ₂)

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: 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.

SECTION 12: ECOLOGICAL INFORMATION	
12.1 Toxicity	
Toxicity – Aquatic invertebrates	Not known.
Toxicity – Fish	Not known.
Toxicity – Algae	Not known.
Toxicity – Sediment Compartment	Not known.
Toxicity – Terrestrial Compartment	Not known.
12.2 Persistence and Degradation	
	Not known.
12.3 Bio accumulative potential	
	Not known.

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12.4 Mobility in soil	
	Not known.
12.5 Results of PBT and vPvB assessment	
	Not known.
12.6 Other adverse effects	
	Not known.

SECTION 13: DISPOSAL CONSIDERATIONS	
13.1 Waste treatment methods	
	Dispose of contents in accordance with local, state or national legislation. Recycle only completely emptied packaging. Containers must not be punctured or destroyed by burning, even when empty. Do not allow to enter drains, sewers or watercourses. Do NOT landfill. Normal disposal is via incineration operated by an accredited disposal contractor. Send to a licensed recycler, reclaimer or incinerator. Dispose of this material and its container to hazardous or special waste collection point.
13.2 Additional Information	
	Disposal should be in accordance with local, state or national legislation.

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.

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SECTION 16: OTHER INFORMATION	
The following sections contain revisions or new statements:	
LEGEND	
Hazard Pictogram(s)	GHS02 GHS07
Hazard classification	Flam. Liq. 3: Flammable liquid and vapour. Skin Sens. 1: May cause an allergic skin reaction.
Hazard Statement(s)	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 H411: Toxic to aquatic life with long-lasting effects
Precautionary Statement(s)	P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233: Keep container tightly closed. P240: Ground/bond container and receiving equipment. P241: Use explosion-proof electrical/ventilating/lighting/.../equipment. P242: Use only non-sparking tools. P243: Take precautionary measures against static discharge. P261: Avoid breathing dust/fumes/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. 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/ shower. P321: Specific treatment (see ... on this label). P333+P313: If skin irritation or a rash occurs: Get medical advice/attention. P363: Wash contaminated clothing before reuse. P370+P378: In case of fire: Use ... to extinguish. P403+P235: Store in a well ventilated place. Keep cool. P501: Dispose of contents/container to ... [... in accordance with national regulation.
Acronyms	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

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	<p>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>
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