



## SAFETY DATA SHEET

In accordance with REACH Regulation EC No.1907/2006

**Product:** CRANBERRY & ORANGE

**Version:** 14

### Section 1. Identification of the substance or the mixture and of the supplier

#### 1.1 Product Identifier

**Product identifier:** CRANBERRY & ORANGE (Contains:2,6-dimethyloct-7-en-2-ol, Ethyl 2,3-epoxy-3phenylbutyrate, Linalool, diethyl malonate)

**Other identifiers:** None

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Product uses:** For manufacturing purposes only.

#### 1.3 Details of the supplier of the safety data sheet

**Company name:** Fizzywhiz

**Company address:** Unit 11 Farriers way Bootle Liverpool L30 4XL United kingdom

(Office hours: Monday to Friday 09.00 to 17.00)

**Contact:** Fizzywhiz

**E-Mail address:** Info@fizzywhiz.com

**Company phone:** (+44) 0151 352 7734

#### 1.4 Emergency telephone number

**Emergency phone:** (+44) 0151 352 7734

### Section 2. Hazards identification

#### 2.1 Classification of the substance or mixture

**Class and category of Classification under Regulation (EC) No 1272/2008 danger:**

Eye Damage / Irritation Category 2

Sensitization - Skin Category 1

Hazardous to the Aquatic Environment - Long-term Hazard Category 3

H317, May cause an allergic skin reaction.

#### 2.2 Label elements

H319, Causes serious eye irritation.

H412, Harmful to aquatic life with long lasting effects.

**Signal word:**

**Hazard statements:**

Warning

H317, May cause an allergic skin reaction.

H319, Causes serious eye irritation.

**Supplemental Information:**

H412, Harmful to aquatic life with long lasting effects.



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**Product:** CRANBERRY & ORANGE  
 EUH208, Contains (-)- dimethyl-2-methylenebicyclo(3.1.1)heptane, 2,4Dimethyl-3-cyclohexen-1-carboxaldehyde,  
 pin-2(10)-ene;L-6,6- Citral, Limonene, Methyl cinnamate, Rose ketones.  
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### Precautionary statements:

May produce an allergic reaction.  
 P261, Avoid breathing vapour or dust.  
 P264, Wash hands and other contacted skin thoroughly after handling.  
 P272, Contaminated work clothing should not be allowed out of the workplace.  
 P273, Avoid release to the environment.  
 P280, Wear protective gloves/eye protection/face protection.  
 P302/352, IF ON SKIN: Wash with plenty of soap and water.  
 P305/351/338, IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P333/313, If skin irritation or rash occurs: Get medical advice/attention.  
 P337/313, If eye irritation persists: Get medical advice/attention.  
 P363, Wash contaminated clothing before reuse.  
 P501, Dispose of contents/container to approved disposal site, in accordance with local regulations.



### Pictograms:

**Other hazards:** None

### Section 3. Composition / information on ingredients

#### 3.2 Mixtures

##### Contains:

Name	CAS	EC	REACH Registration		Classification for (CLP) 1272/2008
			No.	%	
Linalool	78-70-6	201-134-4		5-<10%	SCI 2-EDI 2-SS 1B; H315-H317-H319,-
2-Tert-butylethylcyclohexyl	88-41-5	201-828-7	01-2119970713-33	5-<10%	EH C2;H411,acetate
Ethyl 2,3-epoxy-3-	77-83-8	201-061-8	01-2119967770-28	1-<5%	SS 1B-EH C2,H317-
phenylbutyrate					H411,-
gamma-Undecalactone	104-67-6	203-225-4	01-211-9959333-34-0006	1-<5%	EH C3;H412,-
diethyl malonate	105-53-3	203-305-9		1-<5%	EDI 2;H319,-
2,6-dimethyloct-7-en-2-	18479-58-8	242-362-4	01-2119457274-37	1-<5%	SCI 2-EDI 2;H315-
el					H319,
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Benzyl acetate	140-11-4	205-399-7	01-2119638272-42	1-<5%	EH C3;H412,-
4-(4-hydroxyphenyl)	5471-51-2	226-806-4	1-<5%	ATO 4;H302, butan-2-one	
2-ethyl-3-hydroxy-4-	4940-11-8	225-582-5	01-2120758975-36	1-<5%	ATO 4;H302,pyrone ATO 4-EDI 2;H302-
2-Phenylethanol	60-12-8	200-456-2	01-2119963921-31	1-<5%	H319,-

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2,4-Dimethyl-3-cyclohexen-1-carboxaldehyde	68039-49-6	268-264-1		0.1-<1%	SCI 2-SS 1B-EH C2; H315-H317-H411,-
Limonene	5989-27-5	227-813-5	01-2119529223-47	0.1-<1%	FL 3-SCI 2-SS 1-EH A1-EH C1;H226-H315-H317-H400-H410,-
Citral	5392-40-5	226-394-6		0.1-<1%	SCI 2-EDI 2-SS 1; H315-H317-H319,-
Methyl cinnamate	103-26-4	203-093-8	01-2119979458-16-xxxx	0.1-<1%	SS 1B;H317,-
(-)-pin-2(10)-ene;L-6,6-dimethyl-2-methylenebicyclo(3.1.1)heptane	127-91-3	204-872-5	01-2119519230-54	0.1-<1%	FL 3-SCI 2-SS 1B-AH 1-EH A1-EH C1;H226-H304-H315-H317-H400-H410,-
Butyric acid	107-92-6	203-532-3		0.1-<1%	ATO 4-SCI 1B-EDI 1; H302-H314,-
Rose ketones	23726-91-2			0.1-<1%	SCI 2-SS 1B-EH C2; H315-H317-H411,-

### Substances with Community workplace exposure limits:

Name	CAS	EC	%
3-Methyl butyl acetate	123-92-2	204-662-3	0.1-<1%
Diethyl phthalate	84-66-2	201-550-6	20-<50%
Ethyl acetate	141-78-6	205-500-4	0.1-<1%

**Substances that are persistent, bioaccumulative and toxic or very persistent and very bioaccumulative, greater than 0.1%:** Not Applicable

### Section 4. First-aid measures

#### 4.1 Description of first aid measures

IF ON SKIN: Wash with plenty of soap and water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

#### 4.2 Most important symptoms and effects, both acute and delayed

May cause an allergic skin reaction.

Causes serious eye irritation.

#### 4.3 Indication of any immediate medical attention and special treatment needed

None expected, see Section 4.1 for further information.



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### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable media: Carbon dioxide, Dry chemical, Foam.

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#### 5.2 Special hazards arising from the substance or mixture

In case of fire, may be liberated: Carbon monoxide, Unidentified organic compounds.

#### 5.3 Advice for fire fighters:

In case of insufficient ventilation, wear suitable respiratory equipment.

### Section 6. Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures:

Avoid inhalation. Avoid contact with skin and eyes. See protective measures under Section 7 and 8.

#### 6.2 Environmental precautions:

Keep away from drains, surface and ground water, and soil.

#### 6.3 Methods and material for containment and cleaning up:

Remove ignition sources. Provide adequate ventilation. Avoid excessive inhalation of vapours. Contain spillage immediately by use of sand or inert powder. Dispose of according to local regulations.

#### 6.4 Reference to other sections:

Also refer to sections 8 and 13.

### Section 7. Handling and storage

#### 7.1 Precautions for safe handling:

Keep away from heat, sparks, open flames and hot surfaces. - No smoking. Use personal protective equipment as required. Use in accordance with good manufacturing and industrial hygiene practices. Use in areas with adequate ventilation. Do not eat, drink or smoke when using this product.

#### 7.2 Conditions for safe storage, including any incompatibilities:

Store in a well-ventilated place. Keep container tightly closed. Keep cool. Ground/bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

#### 7.3 Specific end use(s):

Use in accordance with good manufacturing and industrial hygiene practices.



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### Section 8. Exposure controls/personal protection

#### 8.1 Control parameters

Workplace exposure limits:

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Ingredient	CAS	EC	Description	Value
3-Methyl butyl acetate	123-92-2	204-662-3	Long-term exposure limit (8-hour TWA) (ppm)	50
			Long-term exposure limit (8-hour TWA) (mg/m3)	270
			Short-term exposure limit (15-minute) (ppm)	100
			Short-term exposure limit (15-minute) (mg/m3)	540
Diethyl phthalate	84-66-2	201-550-6	Long-term exposure limit (8-hour TWA) (mg/m3)	5
			Short-term exposure limit (15-minute) (mg/m3)	10
Ethyl acetate	141-78-6	205-500-4	Long-term exposure limit (8-hour TWA) (ppm)	200
			Long-term exposure limit (8-hour TWA) (mg/m3)	734
			Short-term exposure limit (15-minute) (ppm)	400
			Short-term exposure limit (15-minute) (mg/m3)	1468

#### 8.2 Exposure Controls

##### Eye / Skin Protection

Wear protective gloves/eye protection/face protection

##### Respiratory Protection

Ensure adequate and ongoing ventilation is maintained in order to prevent build up of excessive vapour and to ensure occupational exposure limits are adhered to. If appropriate, and depending on your patterns and volumes of use, the following engineering controls may be required as additional protective measures: a) Isolate mixing rooms and other areas where this material is used or openly handled. Maintain these areas under negative air pressure relative to the rest of the plant. b) Employ the use of Personal protective equipment - an approved, properly fitted respirator with organic vapour cartridges or canisters and particulate filters. c) Use local exhaust ventilation around open tanks and other open sources of potential exposures in order to avoid excessive inhalation, including places where this material is openly weighed or measured. In addition, use general dilution ventilation of the work area to eliminate or reduce possible worker exposures. d) Use closed systems for transferring and processing this material. Also refer to Sections 2 and 7.



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**Product:** CRANBERRY & ORANGE

### Section 9. Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

**Appearance:** Near Colourless To Pale Yellow Liquid

**Odour:** Characteristic

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**Odour threshold:** Not determined **pH:** Not determined

**Melting point / freezing point:** Not determined **Initial boiling point / range:** Not determined

**Flash point:** 65 °C

**Evaporation rate:** Not determined

**Flammability (solid, gas):** Not determined

**Upper/lower flammability or explosive limits:** Product does not present an explosion hazard

**Vapour pressure:** Not determined **Vapour density:** Not determined

**Relative density:** 1.0320 - 1.0440

**Solubility(ies):** Not determined

**Partition coefficient: n-octanol/water:** Not determined

**Auto-ignition temperature:** Not determined

**Decomposition temperature:** Not determined

**Viscosity:** Not determined

**Explosive properties:** Not expected

**Oxidising properties:** Not expected

**9.2 Other information:** None available

### Section 10. Stability and reactivity

#### 10.1 Reactivity:

Presents no significant reactivity hazard, by itself or in contact with water.

#### 10.2 Chemical stability:

Good stability under normal storage conditions.

#### 10.3 Possibility of hazardous reactions:

Not expected under normal conditions of use.

#### 10.4 Conditions to avoid:

Avoid extreme heat.

#### 10.5 Incompatible materials:

Avoid contact with strong acids, alkalis or oxidising agents.

#### 10.6 Hazardous decomposition products:

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Not expected.

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### Section 11. Toxicological information

#### 11.1 Information on toxicological effects

This mixture has not been tested as a whole for health effects. The health effects have been calculated using the methods outlined in Regulation (EC) No 1272/2008 (CLP).

<b>Acute Toxicity:</b>	Based on available data the classification criteria are not met.
Acute Toxicity Oral	>5000
Acute Toxicity Dermal	>5000
Acute Toxicity Inhalation	Not Available
<b>Skin corrosion/irritation:</b>	Based on available data the classification criteria are not met.
<b>Serious eye damage/irritation:</b>	Eye Damage / Irritation Category 2
<b>Respiratory or skin sensitisation:</b>	Sensitization - Skin Category 1
<b>Germ cell mutagenicity:</b>	Based on available data the classification criteria are not met.
<b>Carcinogenicity:</b>	Based on available data the classification criteria are not met.
<b>Reproductive toxicity:</b>	Based on available data the classification criteria are not met.
<b>STOT-single exposure:</b>	Based on available data the classification criteria are not met.
<b>STOT-repeated exposure:</b>	Based on available data the classification criteria are not met.
<b>Aspiration hazard:</b>	Based on available data the classification criteria are not met.

#### Information about hazardous ingredients in the mixture

Ingredient	CAS	EC	LD50/ATE Oral	LD50/ATE	LC50/ATE	LC50
				Dermal	Inhalation	Route
2-Phenylethanol	60-12-8	200-456-2	500	2500	Not available	Not available
2-ethyl-3-hydroxy-4-pyrone	4940-11-8	225-582-5	1200	Not available	Not available	Not available
4-(4-hydroxyphenyl)butan-2-one	5471-51-2	226-806-4	1400	Not available	Not available	Not available

Refer to Sections 2 and 3 for additional information.

### Section 12. Ecological information

#### 12.1 Toxicity:

Harmful to aquatic life with long lasting effects.

**12.2 Persistence and degradability:** Not available

**12.3 Bioaccumulative potential:** Not available **12.4**

**Mobility in soil:** Not available

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### 12.5 Results of PBT and vPvB assessment:

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

### 12.6 Other adverse effects:

This material contains \*% Volatile Organic Compounds.: 5.02974%

Compounds.:

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### Section 13. Disposal considerations

#### 13.1 Waste treatment methods:

Dispose of in accordance with local regulations. Avoid disposing into drainage systems and into the environment. Empty containers should be taken to an approved waste handling site for recycling or disposal.

### Section 14. Transport information

**14.1 UN number:** Not classified  
**14.2 UN Proper Shipping Name:** -  
**14.3 Transport hazard class(es):** Not classified  
**Sub Risk:** Not classified  
**14.4. Packing Group:** Not classified  
**14.5 Environmental hazards:** Not environmentally hazardous for transport  
**14.6 Special precautions for user:** None additional  
**14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:**  
 Not classified

### Section 15. Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

None additional

#### 15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out for this product.

### Section 16. Other information

**Concentration % Limits:** EH C3=18.35% EDI 2=90.91% SS 1=20.00%

**Total Fractional Values:** EH C3=5.45 EDI 2=1.10 SS 1=5.00

#### Key to revisions:

Concentration % Limits

SECTION 3: Composition/information on ingredients

Total Fractional Values

#### Key to abbreviations:

Abbreviation	Meaning
AH 1	Aspiration Hazard Category 1
ATO 4	Acute Toxicity - Oral Category 4





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EDI 1	Eye Damage / Irritation Category 1
EDI 2	Eye Damage / Irritation Category 2
EH A1	Hazardous to the Aquatic Environment - Acute Hazard Category 1
EH C1	Hazardous to the Aquatic Environment - Long-term Hazard Category 1

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EH C2	Hazardous to the Aquatic Environment - Long-term Hazard Category 2
EH C3	Hazardous to the Aquatic Environment - Long-term Hazard Category 3
FL 3	Flammable Liquid, Hazard Category 3
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
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.
P210	Keep away from heat, sparks, open flames and hot surfaces. - No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical, ventilating and lighting equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P260	Do not breathe vapour or dust.
P261	Avoid breathing vapour or dust.
P264	Wash hands and other contacted skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/eye protection/face protection.
P301/310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P301/312	IF SWALLOWED: call a POISON CENTER or doctor/physician if you feel unwell.
P301/330/331	If swallowed: Rinse mouth. Do not induce vomiting.
P302/352	IF ON SKIN: Wash with plenty of soap and water.



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P303/361/353	IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
P304/340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305/351/338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician.
P330	Rinse mouth.
P331	Do not induce vomiting.
P332/313	If skin irritation occurs: Get medical advice/attention.
P333/313	If skin irritation or rash occurs: Get medical advice/attention.
P337/313	If eye irritation persists: Get medical advice/attention.
P362	Take off contaminated clothing and wash before reuse.

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P363	Wash contaminated clothing before reuse.
P370/378	In case of fire: Use carbon dioxide, dry chemical, foam for extinction.
P391	Collect spillage.
P403/235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container to approved disposal site, in accordance with local regulations.
SCI 1B	Skin Corrosion / Irritation Category 1B
SCI 2	Skin Corrosion / Irritation Category 2
SS 1	Sensitization - Skin Category 1
SS 1B	Sensitization - Skin Category 1B

The information in this safety data sheet is to the best of our knowledge true and accurate but all data, instructions, recommendations and/or suggestions are made without guarantee. This material has not been evaluated for safe use in e-cigarettes. Therefore Fizzywhiz do not support the use in this particular application.