



SAFETY DATA SHEET

In accordance with REACH Regulation EC No.1907/2006

Product: ORANGE BLOSSOM EFF331700

Version: 1

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

1.1 Product Identifier

Product identifier: ORANGE BLOSSOM EFF331700(Contains:1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone, 3,7-Dimethyl-1,6-nonadien-3-ol, 3,7-dimethyl-3-octanol)

Other identifiers: None

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

Product uses: Fragrances

1.3 Details of the supplier of the safety data sheet

Company name: European Flavours & Fragrances PLC

Company address: 9 Peerglow Estate
Marsh Lane, Ware
Hertfordshire
SG12 9QB
UK

Contact: Regulatory Affairs

E-Mail address: regulatory@effgroup.com

Company phone: +44 (0) 1920 485 485

1.4 Emergency telephone number

Emergency phone: 109 (national) / 0798506755

Section 2. Hazards identification

2.1 Classification of the substance or mixture

Classification under Regulation (EC) No 1272/2008

Class and category of 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.
H319, Causes serious eye irritation.
H412, Harmful to aquatic life with long lasting effects.

2.2 Label elements

Classification under Regulation (EC) No 1272/2008

Signal word: Warning

Hazard statements: H317, May cause an allergic skin reaction.
H319, Causes serious eye irritation.
H412, Harmful to aquatic life with long lasting effects.

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Supplemental Information: EUH208, Contains 16-Oxacyclohexadecan-1-one, Citronellyl formate, Lauric aldehyde, Linalyl Acetate, Methyl Isoeugenol, Nerolidol, [(2E)-3,7-dimethylocta-2,6-dienyl] acetate. May produce an allergic reaction.

Precautionary statements:

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:



2.3 Other hazards

Other hazards: None

Section 3. Composition / information on ingredients

3.2 Mixtures

Contains:

Name	CAS	EC	REACH Registration No.	%	Classification for (CLP) 1272/2008	Specific Conc. Limits, M-factors and ATEs
phenethyl alcohol natural	60-12-8	200-456-2	01-2119963921-31-XXXX	10-<20%	Acute Tox. 4-Eye Irrit. 2;H302-H319,-	dermal: ATE = 2500 mg/kg bw-oral: ATE = 1610 mg/kg bw
Benzyl Acetate	140-11-4	205-399-7	01-2119638272-42-XXXX	1-<5%	Aquatic Chronic 3; H412,-	oral: ATE = 2490 mg/kg bw
3,7-Dimethyl-1,6-nonadien-3-ol	10339-55-6	233-732-6	01-2119969272-32-XXXX	1-<5%	Eye Irrit. 2-Skin Sens. 1B;H317-H319,-	oral: ATE = 5000 mg/kg bw
3,7-dimethyl-3-octanol	78-69-3	201-133-9	01-2119454788-21-XXXX	1-<5%	Skin Irrit. 2-Eye Irrit. 2-Skin Sens. 1B;H315-H317-H319,-	
Methyl 2 Aminobenzoate	134-20-3	205-132-4	01-2120478941-44-XXXX	1-<5%	Eye Irrit. 2;H319,-	oral: ATE = 2780 mg/kg bw

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Tetrahydro-2-isobutyl-4-methyl-pyran-4-ol	63500-71-0	405-040-6	01-2119455547-30-XXXX	1-<5%	Eye Irrit. 2;H319,-	
1-Decanal	112-31-2	203-957-4	01-2119967771-26-XXXX	1-<5%	Eye Irrit. 2-Aquatic Chronic 3;H319-H412,-	
1-Octanal	124-13-0	204-683-8	01-2119638274-38-XXXX	1-<5%	Flam. Liq. 3-Skin Irrit. 2-Eye Irrit. 2-Aquatic Chronic 2;H226-H315-H319-H411,-	
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone	54464-57-2, 68155-66-8, 68155-67-9, 54464-59-4	259-174-3, 915-730-3	01-2119489989-04-XXXX	1-<5%	Skin Irrit. 2-Skin Sens. 1B-Aquatic Chronic 1; H315-H317-H410,-	
Nerolidol	7212-44-4, 142-50-7, 40716-66-3, 1119-38-6	230-597-5	01-2119457636-29-XXXX or natural source	0.1-<1%	Eye Irrit. 2-Skin Sens. 1B-Aquatic Acute 1-Aquatic Chronic 1; H317-H319-H410,-	M = 1-M = 1
[(2E)-3,7-dimethylocta-2,6-dienyl] acetate	105-87-3	203-341-5	01-2119973480-35-XXXX or natural source	0.1-<1%	Skin Irrit. 2-Skin Sens. 1B-Aquatic Chronic 3; H315-H317-H412,-	
Linalyl Acetate	115-95-7	204-116-4	01-2119454789-19-XXXX	0.1-<1%	Skin Irrit. 2-Eye Irrit. 2-Skin Sens. 1B;H315-H317-H319,-	
Methyl Isoeugenol	6379-72-2, 93-16-3	202-224-6, 228-958-7	01-2120223689-47-XXXX or natural source	0.1-<1%	Skin Sens. 1B;H317,-	oral: ATE = 2500 mg/kg bw
Lauric aldehyde	112-54-9	203-983-6	01-2119969441-33-XXXX or natural source	0.1-<1%	Skin Irrit. 2-Eye Irrit. 2-Skin Sens. 1B;H315-H317-H319,-	
1-Undecanal	112-44-7	203-972-6	01-2119529242-47-XXXX or natural source	0.1-<1%	Skin Irrit. 2-Aquatic Acute 1-Aquatic Chronic 1;H315-H410,-	M = 1-M = 1
Citronellyl formate	105-85-1	203-338-9	01-2120132106-71-XXXX or natural source	0.1-<1%	Skin Irrit. 2-Skin Sens. 1B;H315-H317,-	
16-Oxacyclohexadecan-1-one	106-02-5	203-354-6	01-2119987323-31-XXXX or natural source	0.1-<1%	Skin Sens. 1B-Aquatic Chronic 2;H317-H411,-	

Substances with Community workplace exposure limits:

Name	CAS	EC	REACH Registration No.	%	Classification for (CLP) 1272/2008	Specific Conc. Limits, M-factors and ATEs
1-Decanol	112-30-1	203-956-9	01-2119480407-35-XXXX or natural source	0.1-<1%	Aquatic Chronic 3; H412,-	
1-Octanol	111-87-5	203-917-6	Exempt < 1 Tonne/pa or natural source	0.1-<1%	Eye Irrit. 2-Aquatic Chronic 3;H319-H412,-	dermal: ATE = 2500 mg/kg bw
Diethyl Phthalate	84-66-2	201-550-6	01-2119486682-27-XXXX	5-<10%	-,-,-	
Rapeseed oil	8002-13-9	232-299-0		20-<50%	-,-,-	

Substances that are endocrine disruptors according to Regulation (EU) 2017/2100 or Regulation (EU) 2018/605, greater than 0.1%:

Not Applicable

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



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Inhalation: Remove from exposure site to fresh air, keep at rest, and obtain medical attention.

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

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

Ingestion: Rinse mouth with water and obtain medical attention.

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.

Section 5: Firefighting measures

5.1 Extinguishing media

Suitable media: Carbon dioxide, Dry chemical, Foam.

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.



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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):

Fragrances: Use in accordance with good manufacturing and industrial hygiene practices.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Workplace exposure limits:

Ingredient	CAS	EC	Description	Value
1-Decanol	112-30-1	203-956-9	German OEL Long term ppm	10 ppm
			German OEL Long term mgm3	66 mg/m ³
1-Octanol	111-87-5	203-917-6	German OEL Long term ppm	10 ppm
			German OEL Long term mgm3	54 mg/m ³
Diethyl Phthalate	84-66-2	201-550-6	UK WEL Long term mgm3	5 mg/m ³
			UK WEL Short term mgm3	10 mg/m ³
			EU Long-term exposure limit (8-hour TWA) (mg/m3)	5 mg/m ³
			EU Short-term exposure limit (15-minute) (mg/m3)	10 mg/m ³
			Polish NDS mgm3	3 mg/m ³
Rapeseed oil	8002-13-9	232-299-0	German OEL Long term mgm3	5 mg/m ³



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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.

Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State/Colour:	Not determined
Odour:	Not determined
Odour threshold:	Not determined
Melting point / freezing point:	Not determined
Boiling point or initial boiling point and boiling range:	Not determined
Flammability:	Not determined
Lower and upper explosion limit:	Not determined
Flash point (°C):	> 62 °C
Auto-ignition temperature:	Not determined
Decomposition temperature:	Not relevant
pH:	Not determined
Kinematic viscosity:	Not determined
Solubility:	Not determined
Partition coefficient: n-octanol/water (log value):	Not determined
Vapour pressure (calculated mmHg):	0.05405472 mmHg
Density and/or relative density:	Not determined
Relative vapour density:	Not determined
Particle characteristics:	Not determined

9.2 Other information: None available



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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:

Not expected.

Section 11. Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

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).

Acute Toxicity:	Based on available data the classification criteria are not met.
Acute Toxicity Oral	>5000
Acute Toxicity Dermal	>5000
Acute Toxicity Inhalation	Not Available
Skin corrosion/irritation:	Based on available data the classification criteria are not met.
Serious eye damage/irritation:	Eye Damage / Irritation Category 2
Respiratory or skin sensitisation:	Sensitization - Skin Category 1
Germ cell mutagenicity:	Based on available data the classification criteria are not met.
Carcinogenicity:	Based on available data the classification criteria are not met.
Reproductive toxicity:	Based on available data the classification criteria are not met.
STOT-single exposure:	Based on available data the classification criteria are not met.
STOT-repeated exposure:	Based on available data the classification criteria are not met.
Aspiration hazard:	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 Dermal	LC50/ATE Inhalation	LC50 Route
phenethyl alcohol natural	60-12-8	200-456-2	1610	2500	Not available	Not available



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Refer to Sections 2 and 3 for additional information.

11.2 Information on other hazards

Not Applicable

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

12.5 Results of PBT and vPvB assessment:

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

12.6 Endocrine disrupting properties: Not Applicable

12.7 Other adverse effects: Not available

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:	14.2 UN Proper Shipping Name:	14.3 Transport hazard class (es):	Sub Risk:	14.4 Packing Group:
UN Model Regulations	Not classified	-	-	-	-
IMDG	Not classified	-	-	-	-
ADR,RID,ADN	Not classified	-	-	-	-
ICAO TI	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



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Section 15. Regulatory information

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

Water Hazard Class (WGK): 2
Volatile Organic Compounds content: 8.241%
VOC Switzerland content: 4.189%
Hydrocarbon Concentration %: 0.0000%

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=10.59% EDI 2=36.95% EDI 2A=36.95% SS 1=34.38%

Total Fractional Values: EH C3=9.44 EDI 2=2.71 EDI 2A=2.71 SS 1=2.91

Key to revisions:

Not applicable

Key to abbreviations:

Abbreviation	Meaning
Acute Tox. 4	Acute Toxicity - Oral Category 4
Aquatic Acute 1	Hazardous to the Aquatic Environment - Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the Aquatic Environment - Long-term Hazard Category 1
Aquatic Chronic 2	Hazardous to the Aquatic Environment - Long-term Hazard Category 2
Aquatic Chronic 3	Hazardous to the Aquatic Environment - Long-term Hazard Category 3
Eye Irrit. 2	Eye Damage / Irritation Category 2
Flam. Liq. 3	Flammable Liquid, Hazard Category 3
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
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.
P261	Avoid breathing vapour or dust.



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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.
P301/312	IF SWALLOWED: call a POISON CENTER or doctor/physician if you feel unwell.
P302/352	IF ON SKIN: Wash with plenty of soap and water.
P303/361/353	IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
P305/351/338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P330	Rinse mouth.
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.
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.
P501	Dispose of contents/container to approved disposal site, in accordance with local regulations.
Skin Irrit. 2	Skin Corrosion / Irritation Category 2
Skin Sens. 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.