



## BERGAMOT FCF ESSENTIAL OIL MATERIAL SAFETY DATA SHEET

### I. Identification of the substance/mixture and of the company/undertaking

Trade name: BERGAMOT FCF WHITE

Relevant identified uses of the substance or mixture and uses advised against  
Multiple uses in the Flavour and Fragrance industries

Manufacturer/Supplier:

G. Baldwin & Co.

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LONDON, ENGLAND. SE17 1RW.

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(office hours only)

### 2. Hazards identification

#### 2.1 Classification of the substance or mixture

Mixture

## 2.2 Label elements

Hazard pictograms



GHS 02   GHS 07   GHS 08   GHS 09

Signal Word   DANGER

Classification in accordance with the Classification Labelling and Packaging  
Regulation EC (no) 1272/2008

### Hazard Phrases

H226	Flammable liquid and vapour
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H304	May be fatal if swallowed and enters airways
H401	Toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects

### Phrases

P210	Keep away from heat/sparks/open flames/hot surfaces – no smoking
P261	Avoid breathing dust/fumes/gas/mist/vapour/spray
P264	Wash thoroughly after handling
P273	Avoid release to the environment

<b>P280</b>	Wear protective gloves/protective clothing/eye protection/face protection
<b>P301/P310</b>	IF SWALLOWED: Immediately call a POISON CENTRE or Doctor
<b>P302/P352</b>	IF ON SKIN: Wash with plenty of soap and water
<b>P331</b>	Do NOT induce vomiting.
<b>P333/P313</b>	If skin irritation or rash occurs: get medical advice/attention
<b>P391</b>	Collect spillage.

### 3. Composition/information on ingredients

3.1	CAS Number (US)	-
3.2	FEMA Number	-
3.3	F.D.A.	-
3.4	Einecs Number	-
3.5	Council of Europe	-
3.6	CAS Number (EC)	-
3.7	Botanical Source	Citrus bergamia
3.8	CHEM/IUPAC Name	-
3.9	RIFM/Monograph	No
3.10	IFRA Guideline	Restricted. See <a href="http://www.ifraorg.org">http://www.ifraorg.org</a>
3.11	Hazard Symbol	Xn N
3.12	Risk Phrases	R10 R36 R43 R51/53 R65
3.13	Safety Phrases	S24 S37 S61 S62
3.14	Hydrocarbon Content %	55

**Safety Data Sheet according to 1907/2006/EC, Article 31**

Material	CAS No.	EINECS	UN GHS Class	Quantity %	
Linalyl acetate	115-95-7	204-116-4	FL 4, SCI 3, EDI 2A, EH A2	25.0 TO 50.0	
d-Limonene (p-mentha-1,8-diene)	5989-27-5	227-813-5	FL 3, SCI 2, SS 1B, AH 1, EH A1, EH C1	25.0 TO 50.0	
Linalool	78-70-6	201-134-4	FL 4, ATO 5, SCI 2, EDI 2A, EH A3	5.0 TO 10.0	
gamma-Terpinene	99-85-4	202-794-6	FL 3, ATO 5 SCI 3, AH 1	1.0 TO 5.0	
beta-Pinene Natural	127-91-3	204-872-5	FL 3, ATO 5, SCI 2, SS 1B, AH 1	1.0 TO 5.0	
alpha-Pinene Natural	80-56-8	201-291-9	FL 3, ATO 5, SCI 2, SS 1B, AH 1	1.0 TO 5.0	
Material	CAS No.	EINECS	Hazard Symbols	Risk Phrases	Quantity %
Linalyl acetate	115-95-7	204-116-4	Xi	R38	25.0 TO 50.0
d-Limonene (p-mentha-1,8-diene)	5989-27-5	227-813-5	Xi, Xn, N	R10, R38, R43, R50/53, R65	25.0 TO 50.0
Linalool	78-70-6	201-134-4	Xi	R38	5.0 TO 10.0
gamma-Terpinene	99-85-4	202-794-6	Xn	R10, R65	1.0 TO 5.0

beta-Pinene Natural	127-91-3	204-872-5	Xn	R10, R38, R43, R65	1.0 TO 5.0
alpha-Pinene Natural	80-56-8	201-291-9	XN	R10, R38, R43, R65	1.0 TO 5.0

#### 4. First Aid Measures

##### 4.1 Description of first aid measures

<b>SKIN CONTACT</b>	Wash affected area with soap and running water, if irritation persists seek medical advice.
<b>EYE CONTACT</b>	Irrigate the eyes with copious volumes of water for at least 15 minutes with the eye lids open. Seek medical advice if inflammation persists.
<b>INGESTION</b>	Dilute internally with water. DO NOT INDUCE VOMITING. Seek medical advice immediately.
<b>INHALATION</b>	Remove person to fresh air, remove any contaminated clothing, in case of breathing difficulty seek medical advice.

#### 5. Firefighting measures

5.1	Extinguishing Media	Foam, CO <sub>2</sub> , Dry Powder
5.2	Unsuitable Media	Water
5.3	Combustable Products	Smoke, Carbon Dioxide, Carbon Monoxide
5.4	Special fire-fighting equipment	None

## 6. Accidental release measures

6.1	In case of spillage or leak remove all ignition sources, use respirators if necessary and suitable protective clothing, including goggles and gloves. Gather spill in inert material, sand or earth and avoid contamination of drains. Dispose of in accordance with local regulations. In the event of any discharge into drains notify the relevant Authorities.
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## 7. Handling and storage

7.1	Handling	Use in a well ventilated area away from sources of ignition in accordance with good occupational hygiene and safety practices.  NO SMOKING
7.2	Storage	Well fitted tightly stoppered containers away from heat, light and ignition. Recommended storage at ambient temperature.
7.3	Shelf Life	12 months

## 8. Personal protection

8.1	Hands	Safety gloves
8.2	Eyes	Safety glasses or goggles
8.3	Skin	Light protective clothing
8.4	Respiratory	Do not inhale vapour

8.5	General	Good housekeeping and work hygiene principles should be used when handling this material.
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## 9. Physical and chemical properties

99.1.9.1	State	Mobile liquid
99.2.9.1	Odour	Dry sweet floral citrus
99.3.9.1	pH	-
99.4.9.1	Boiling Point °C	-
99.5.9.1	Melting Point °C	-
99.6.9.1	Flash Point (CC) °C	58
99.7.9.1	Flammability	Flammable liquid
99.8.9.1	Vapour Pressure	-
99.9.9.1	Autoflammability °C	-
99.10.9.1	Explosive properties	-
99.11.9.1	Oxidising properties	-
99.12.9.1	Specific Gravity at 20/20°C	0.8660 to 0.8760
99.13.9.1	Refractive Index at 20°C	1.460 to 1.467
99.14.9.1	Optical Rotation at 20°C (Degrees)	12.0 to 32.0
99.15.9.1	Solubility in water	Insoluble
99.16.9.1	Solubility in oil	Soluble
99.17.9.1	Solubility in ethanol	-
99.18.9.1	Exposure Limits	
99.19.9.1	Viscosity	
99.20.9.1	Acid Value mg KOH/g	0.0 to 2.0

## **10. Stability and reactivity**

10.1	Stable under normal conditions. Avoid contact with strong oxidising materials.
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## **11. Toxicological information**

11.1	LD <sub>50</sub>	No data
11.2	Dermal	No data
11.3	Toxicological components	
	Citral	<0.4% IFRA Standard

## **12. Ecological information**

Toxic to aquatic life with long lasting effects. May cause long-term adverse effects in the aquatic environment. When spilled can contaminate soil, ground and surface water.

## **13. Disposal considerations**

Dispose of according to the regulations in your area. Do not discard into drainage systems or elsewhere into the environment.

## **14. Transport information**

14.1	UN No.	1169
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14.2	Road ADR/RID	Class 3
14.3	Sea IMDG/IMO	Class 3
14.4	Air IATA/ICAO	Class 3
14.5	UN Packing Group	PG III
14.6	Harmonised Tariff Code	3302.90.90
14.7	Proper Shipping Name	EXTRACTS, AROMATIC, LIQUID

### 15. Regulatory information

Classification under EU Regulation No. 1272/2008 o Classification, Labelling and Packaging of Substances and Mixtures		
15.1a	Signal Word	Danger
15.2a	Hazard Statements	H226 Flammable liquid and vapour
		H315 Causes skin irritation
		H317 May cause an allergic skin reaction
		H304 May be fatal if swallowed and enters airways
		H401 Toxic to aquatic life
		H411 Toxic to aquatic life with long lasting effects
15.3a	Precautionary Statements	P210 Keep away from heat/sparks/open flames/hot surfaces – no smoking
		P261 Avoid breathing dust/fumes/gas/mist/vapour/spray
		P264 Wash thoroughly after handling

		P273 Avoid release to the environment
		P280 Wear protective gloves/protective clothing/eye protection/face protection
		P301/P310 IF SWALLOWED: Immediately call a POISON CENTRE or Doctor
		P302/P352 IF ON SKIN: Wash with plenty of soap and water
		P331 Do NOT induce vomiting.
		P333/P313 If skin irritation or rash occurs: get medical advice/attention
		P391 Collect spillage.

Classification under Packaging/labelling Regulations [chemicals (Hazard Information and Packaging for Supply) Regulations 2002] implementing Article 27 of the Dangerous Substances Directive 67/548/EEC and Article 15 of the Dangerous Preparations Directive 1999/45/EC as amended by Directive 2006/8/EC and Safety Data Sheets Directive 91/155/EEC as amended by Directives 93/112/EC and 2001/58/EC **CLa**

15.1b	Hazard Symbol	Xn Harmful
15.2b	Risk Phrases	N Dangerous for the environment
		R10 Flammable
		R38 Irritating to skin
		R43 May cause sensitisation by skin contact
		R51/R53 Toxic to aquatic organisms, may cause long-term

		adverse effects in the aquatic environment.
		R65 Harmful: may cause lung damage if swallowed.
15.3b	Safety Phrases	S24 Avoid contact with skin
		S37 Wear suitable gloves
		S61 Avoid release to the environment. Refer to special instructions/safety data sheet
		S62 If swallowed: DO NOT induce vomiting; seek medical advice immediately and show the container or label

## 16. Other information

16.1	Uses	Flavours and fragrances
16.2	Data References	Supplier's Specifications
16.3	IFRA Guidelines	Restricted. See <a href="http://www.ifraorg.org">http://www.ifraorg.org</a>

The information given in this Safety Data Sheet is based on the properties of the material known at the time the data sheet was issued. This Safety Data Sheet is intended to provide information for a health and safety assessment of this material/preparation and the circumstances under which it is packaged, stored or applied in the workplace.

This material should be handled by trained and experienced personnel only.

The material referred to in this Safety Data Sheet is for industrial/manufacturing use only. It is not intended for use by the general public.



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OF NATURAL  
PRODUCTS  
SINCE 1844