

# SAFETY DATA SHEET

In accordance with REACH Regulation EC No.1907/2006

Product: GINGERBREAD PN804378

Version: 2

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

### 1.1 Product Identifier

Product identifier: GINGERBREAD PN804378

Other identifiers: None

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

Product uses: Fragrance

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

Company name: AROMATIC FLAVOURS & FRAGRANCES EUROPE

Company address: AFF HOUSE  
STATION ROAD INDUSTRIAL ESTATE  
ELMSWELL, BURY ST. EDMUNDS  
SUFFOLK IP30 9HR  
UNITED KINGDOM

Contact: Zuzanna Przywara

E-Mail address: zprzywara@af-f.com

Company phone: 01359 242459

### 1.4 Emergency telephone number

Emergency phone: 01359 242459

## Section 2. Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification under Regulation (EC) No 1272/2008

Class and category of danger: Hazardous to the Aquatic Environment - Long-term Hazard Category 3  
H412, Harmful to aquatic life with long lasting effects.

#### Classification under Directive 1999/45/EC

Hazard symbols: None

Risk phrases: R52/53, Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### 2.2 Label elements

Signal word: None

Hazard statements: H412, Harmful to aquatic life with long lasting effects.

Supplemental Information: EUH208, Contains Acetyl cedrene, Cinnamal, Citral, Eugenol, Geraniol, Nerol, d-.alpha.-Pinene, Citronellol. May produce an allergic reaction.

# SAFETY DATA SHEET

In accordance with REACH Regulation EC No.1907/2006

**Product:** GINGERBREAD PN804378

**Version:** 2

**Precautionary statements:** P273, Avoid release to the environment.  
P501, Dispose of contents/container to approved disposal site, in accordance with local regulations.

**Pictograms:** None

**Other hazards:** None

## Section 3. Composition / information on ingredients

### 3.2 Mixtures

**Contains:**

Name	CAS	EC	REACH Registration No.	%	Classification for (DSD) 67/548/EEC	Classification for (CLP) 1272/2008
Eugenol	97-53-0	202-589-1		0.78%	Xi ; R36-R43	EDI 2-SS 1B;H317-H319,-
Geraniol	106-24-1	203-377-1		0.50%	Xi ; R38-R41-R43	SCI 2-EDI 1-SS 1;H315-H317-H318,-
Citral	5392-40-5	226-394-6		0.45%	Xi ; R38-R43	SCI 2-EDI 2-SS 1B;H315-H317-H319,-
Citronellol	106-22-9	203-375-0		0.42%	Xi-N ; R38-R43-R51/53	SCI 2-EDI 2-SS 1B;H315-H317-H319,-
Nerol	106-25-2	203-378-7		0.41%	Xi ; R43-R36/38	SCI 2-EDI 2-SS 1B;H315-H317-H319,-
Camphene	79-92-5	201-234-8		0.40%	F-Xi-N ; R11-R36-R50/53	FS 2-EDI 2-EH A1-EH C1; H228-H319-H410,-
Phellandrene	1329-99-3	215-532-0		0.40%	Xn ; R10-R22-R65	FL 3-ATO 4-AH 1;H226-H302-H304,-
Benzyl benzoate	120-51-4	204-402-9		0.39%	Xn-N ; R22-R51/53	ATO 4-EH A1-EH C2; H302-H400-H411,-
d-.alpha.-Pinene	7785-70-8	232-087-8		0.18%	Xn-N ; R10-R38-R43-R65-R50/53	FL 3-SCI 2-SS 1B-AH 1-EH A1-EH C1;H226-H304-H315-H317-H410,-
Acetyl cedrene	32388-55-9	251-020-3		0.11%	Xi-N ; R43-R50/53	SS 1B-EH A1-EH C1;H317-H410,-
dl-Limonene (racemic)	138-86-3	205-341-0		0.04%	Xn-N ; R10-R38-R43-R65-R50/53	FL 3-SCI 2-SS 1-SS 1B-AH 1-EH A1-EH C1;H226-H304-H315-H317-H410,-
d-Limonene	5989-27-5	227-813-5		0.03%	Xn-N ; R10-R38-R43-R65-R50/53	FL 3-SCI 2-SS 1-SS 1B-AH 1-EH A1-EH C1;H226-H304-H315-H317-H410,-
Cinnamal	104-55-2	203-213-9		0.02%	Xn ; R21-R38-R43	ATD 4-SCI 2-EDI 2-SS 1A; H312-H315-H317-H319,-
alpha-Guaiene	3691-12-1			0.007%	Xn ; R38-R65	SCI 2-EDI 2-AH 1;H304-H315-H319,-
beta-Caryophyllene	87-44-5	201-746-1		0.001%	Xn ; R65	AH 1;H304,-
3,7-Dimethyl-1,3,6-octatriene	13877-91-3	237-641-2		0.001%	Xn ; R10-R65	FL 3-AH 1;H226-H304,-
Bisabolene	495-62-5	207-805-8		<0.001%	Xn ; R38-R43-R65	SCI 2-SS 1B-AH 1;H304-H315-H317,-
Terpinolene	586-62-9	209-578-0		<0.001%	Xn-N ; R43-R65-R50/53	SS 1B-AH 1-EH A1-EH C1; H304-H317-H410,-
alpha-Pinene	80-56-8	201-291-9		<0.001%	Xn ; R10-R38-R43-R65	FL 3-SCI 2-SS 1B-AH 1; H226-H304-H315-H317,-
beta-Pinene	127-91-3	204-872-5		<0.001%	Xn ; R10-R38-R43-R65	FL 3-SCI 2-SS 1B-AH 1; H226-H304-H315-H317,-
p-Cymene	99-87-6	202-796-7		<0.001%	Xn-N ; R10-R65-R51/53	FL 3-AH 1-EH C2;H226-H304-H411,-
2,6-Dimethylocta-2,4,6-triene	673-84-7	211-614-5		<0.001%	Xn ; R38-R65	ATO 4-SCI 2-EDI 2-AH 1; H302-H304-H315-H319,-

# SAFETY DATA SHEET

In accordance with REACH Regulation EC No.1907/2006

**Product:** GINGERBREAD PN804378

**Version:** 2

**Substances with Community workplace exposure limits, not listed above:**

Name	CAS	EC	%
Propane-1,2-diol	57-55-6	200-338-0	0.04%

**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

**Inhalation:** Remove from exposure site to fresh air, keep at rest, and obtain medical attention.  
**Eye exposure:** Flush immediately with water for at least 15 minutes. Contact physician if symptoms persist.  
**Skin exposure:** Remove contaminated clothes. Wash thoroughly with soap and water. Contact physician if irritation persists.  
**Ingestion:** Rinse mouth with water and obtain medical attention.

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

None expected, see Section 4.1 for further information.

### 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.

# SAFETY DATA SHEET

In accordance with REACH Regulation EC No.1907/2006

**Product:** GINGERBREAD PN804378

**Version:** 2

## 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.

## Section 8. Exposure controls/personal protection

### 8.1 Control parameters

#### Workplace exposure limits:

Ingredient	CAS	EC	Description			Reference
Propane-1,2-diol	57-55-6	200-338-0	Long-term exposure limit (8-hour TWA reference period)	150	474	UK EH40 Oct 2007
			Short-term exposure limit (15-minute reference period)	-	-	UK EH40 Oct 2007

### 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

# SAFETY DATA SHEET

In accordance with REACH Regulation EC No.1907/2006

**Product:** GINGERBREAD PN804378

**Version:** 2

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

<b>Appearance:</b>	Very Pale Yellow to Pale Yellow in an 8ml vial
<b>Odour:</b>	Not determined
<b>pH:</b>	Not determined
<b>Initial boiling point / range:</b>	Not determined
<b>Flash point:</b>	> 61 °C
<b>Vapour pressure:</b>	Not determined
<b>Relative density:</b>	0.8540 - 0.8740
<b>Solubility(ies):</b>	Not determined
<b>9.2 Other information:</b>	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:

Not expected.

## 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).

# SAFETY DATA SHEET

In accordance with REACH Regulation EC No.1907/2006

**Product:** GINGERBREAD PN804378

**Version:** 2

This material does not meet the criteria for classification for health hazards under Regulation (EC) No 1272/2008.

<b>Assumed Toxicity Value (LD50 or ATE) for Acute Oral Toxicity:</b>	Not Applicable
<b>Assumed Toxicity Value (LD50 or ATE) for Acute Dermal Toxicity:</b>	Not Applicable
<b>Assumed Toxicity Value (LC50 or ATE) for Acute Inhalation Toxicity:</b>	Not Available
<b>Inhalation Route:</b>	Not Available

**Information about hazardous ingredients in the mixture**

Not Applicable

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

**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:** 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:** Not classified

**14.2 UN Proper Shipping Name:** Not classified

**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

# SAFETY DATA SHEET

In accordance with REACH Regulation EC No.1907/2006

**Product:** GINGERBREAD PN804378

**Version:** 2

## 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=36.55% EH C4=14.12%

**Total Fractional Values:** EH C3=2.74 EH C4=7.08

### Key to revisions:

Classification under Directive 1999/45/EC

Classification under Regulation (EC) No 1272/2008

SECTION 3: Composition/information on ingredients

### Key to abbreviations:

Abbreviation	Meaning
AH 1	Aspiration Hazard Category 1
ATD 4	Acute Toxicity - Dermal Category 4
ATO 4	Acute Toxicity - Oral Category 4
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
EH C2	Hazardous to the Aquatic Environment - Long-term Hazard Category 2
FL 3	Flammable Liquid, Hazard Category 3
FS 2	Flammable Solid, Hazard Category 2
H226	Flammable liquid and vapour.
H228	Flammable solid.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
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.

# SAFETY DATA SHEET

In accordance with REACH Regulation EC No.1907/2006

**Product:** GINGERBREAD PN804378

**Version:** 2

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.
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.
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.
P310	Immediately call a POISON CENTER or doctor/physician.
P312	Call a POISON CENTRE or doctor/physician if you feel unwell.
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.
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 2	Skin Corrosion / Irritation Category 2
SS 1	Sensitization - Skin Category 1
SS 1A	Sensitization - Skin Category 1A
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.