



Version: 1 (30/01/2017)

SAFETY DATA SHEET

In accordance with REACH Regulation EC No.1907/2006

Product: FREESIA PN808087

Version: 1

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

1.1 Product Identifier

Product identifier: FREESIA PN808087(Contains:2-Methyl-3-(p-isopropylphenyl)propionaldehyde, Hexyl

Cinnamal, Linalool, dl-Limonene (racemic))

Other identifiers: None

1.2 Relevant identified uses of the substance of 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 Zuzanna Przywara

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 Skin Corrosion / Irritation Category 2

danger:

Eye Damage / Irritation Category 2

Sensitization - Skin Category 1

Hazardous to the Aquatic Environment - Long-term Hazard Category 2

H315, Causes skin irritation.

H317, May cause an allergic skin reaction.

H319, Causes serious eye irritation.

H411, Toxic to aquatic life with long lasting effects.

2.2 Label elements

Signal word: Warning

Hazard statements: H315, Causes skin irritation.

H317, May cause an allergic skin reaction.



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H319, Causes serious eye irritation.

H411, Toxic to aquatic life with long lasting effects.

Supplemental Information:

EUH208, Contains 4-tert.-Butylcyclohexyl acetate, Geranyl acetate, Terpinolene, beta-Pinene, d-Limonene, Citronellol, Benzyl salicylate, Amyl Cinnamal, alpha-isomethyl ionone, Allyl cyclohexanepropionate, 2,4-Dimethyl-3-cyclohexen-1-carboxaldehyde, Hexyl salicylate, (E)-1-(2,6,6-Trimethyl-2-cyclohexen-1-yl)-2-buten-1-one. 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. P362, Take off contaminated clothing and wash before reuse.

P391, Collect spillage.

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 No.	%	Classification for (CLP) 1272/2008
Linalool	78-70-6	201-134-4		11.50%	SCI 2-EDI 2;H315- H319,-
Hexyl Cinnamal	101-86-0	202-983-3		4.41%	SS 1B-EH C2;H317- H411,-
dl-Limonene (racemic)	138-86-3	205-341-0		1 31%	FL 3-SCI 2-SS 1B-AH 1-EH A1-EH C1;H226- H304-H315-H317- H410,-
Ethylene brassylate	105-95-3	203-347-8		4.11%	EH C2;H411,-



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2-Methyl-3-(p- isopropylphenyl) propionaldehyde	103-95-7	203-161-7		3.29%	SCI 2-SS 1B;H315- H317,-
Allyl heptanoate	142-19-8	205-527-1		3.22%	ATO 3-ATD 3-ATI 3-EH A1-EH C3;H301-H311- H331-H400-H412,-
Amyl Cinnamal	122-40-7			SS 1B-EH C2;H317- H411,-	
1,3,4,6,7,8-Hexahydro- 4,6,6,7,8,8- hexamethylcyclopenta- gamma-2-benzopyran	1222-05-5	214-946-9		2.31%	EH A1-EH C1;H410,-
2-tert-Butylcyclohexyl acetate	88-41-5	201-828-7		2.10%	EH C2;H411,-
Hexyl salicylate	6259-76-3	228-408-6		1.86%	SCI 2-EDI 2-SS 1-EH A1-EH C1;H315-H317- H319-H410,-
Linalyl acetate	115-95-7	204-116-4		1.62%	SCI 2-EDI 2;H315- H319,-
Citronellol	106-22-9	203-375-0		1.61%	SCI 2-EDI 2-SS 1B; H315-H317-H319,-
Benzyl salicylate	118-58-1	204-262-9		1.61%	SS 1B-EH C3;H317- H320-H412,-
Allyl cyclohexanepropionate	2705-87-5	220-292-5		1.61%	ATO 4-ATD 4-ATI 4-SS 1-EH A1-EH C1;H302- H312-H317-H332- H410,-
3a-4,5,6,7,7a- hexahydro-7,methane-1 (3)H-inden-5(6)-yl aetate	5413-60-5	226-501-6		1.61%	EH C3;H412,-
Geranyl acetate	105-87-3	203-341-5		1.24%	SCI 2-SS 1-EH C3; H315-H317-H412,-
Butylated hydroxytoluene	128-37-0	204-881-4		1.19%	EH A1-EH C1;H410,-
gamma-Undecalactone	104-67-6	203-225-4		1.19%	EH C3;H412,-
alpha-Terpineol	98-55-5	202-680-6		1.19%	SCI 2-EDI 2;H315- H319,-
alpha-isomethyl ionone	127-51-5	204-846-3		0.70%	SCI 2-SS 1B-EH C2; H315-H317-H320- H411,-
d-Limonene	5989-27-5	227-813-5		0.50%	FL 3-SCI 2-SS 1B-AH 1-EH A1-EH C1;H226- H304-H315-H317- H410,-
Allyl hexanoate	123-68-2	204-642-4		0.49%	ATO 3-ATD 3-ATI 3-EH A1-EH C3;H301-H311- H331-H400-H412,-
2,4-Dimethyl-3- cyclohexen-1- carboxaldehyde	68039-49-6	268-264-1		0.49%	SCI 2-EDI 2-SS 1B-EH C3;H315-H317-H319- H412,-
4-tertButylcyclohexyl acetate	32210-23-4	250-954-9	01-2119976286-24 / -	0.35%	SS 1B-EH C2;H317- H411,-
4-Methyl-3-Decen-5-ol	81782-77-6	279-815-0		0.25%	EH A1;H400,-
beta-Pinene	127-91-3	204-872-5		0.21%	FL 3-SCI 2-SS 1B-AH 1;H226-H304-H315- H317,-
3,3-Dimethyl-5-(2,2,3- trimethyl-3-cyclopenten- 1-yl)-4-penten-2-ol	107898-54-4	411-580-3		0.21%	SCI 2-EH A1-EH C1; H315-H410,-
p-Mentha-1,4-diene	99-85-4	202-794-6		0.18%	FL 3-AH 1;H226-H304,
(E)-1-(2,6,6-Trimethyl-2- cyclohexen-1-yl)-2- buten-1-one	24720-09-0	246-430-4		0.18%	ATO 4-SS 1B;H302- H317,-
Terpinolene	586-62-9	209-578-0		0.13%	SS 1B-AH 1-EH A1-EH C1;H304-H317-H410,-





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Myrcene	123-35-3	204-622-5	(0.10%	FL 3-SCI 2-EDI 2-AH 1; H226-H304-H315- H319,-
dalphaPinene	7785-70-8	232-087-8	(0.04%	FL 3-SCI 2-SS 1B-AH 1-EH A1-EH C1;H226- H304-H315-H317- H410,-
p-Cymene	99-87-6	202-796-7	C	1113%	FL 3-AH 1-EH C2; H226-H304-H411,-
3,7-Dimethyl-1,3,6- octatriene	13877-91-3	237-641-2		0.002%	FL 3-AH 1;H226-H304, -
beta-Caryophyllene	87-44-5	201-746-1	(0.001%	AH 1;H304,-

Substances with Community workplace exposure limits:

Name	CAS	EC	%
1-Methoxypropan-2-ol	107-98-2	203-539-1	<0.001%
Butylated hydroxytoluene	128-37-0	204-881-4	1.19%
Dipropylene glycol monomethyl ether	34590-94-8	252-104-2	<0.001%
Ethyl acetate	141-78-6	205-500-4	0.49%
Propylene glycol	57-55-6	200-338-0	<0.001%

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

Causes skin irritation.

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.





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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.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Workplace exposure limits:





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Ingredient	CAS	EC	Description	Value
	107-98-2	203-539-1	Long-term exposure limit (8-hour TWA) (ppm)	100
1 Methovypropen 2 ol			Long-term exposure limit (8-hour TWA) (mg/m3)	375
1-Methoxypropan-2-ol			Short-term exposure limit (15-minute) (ppm)	150
			Short-term exposure limit (15- minute) (mg/m3)	560
Butylated hydroxytoluene			Long-term exposure limit (8-hour TWA) (mg/m3)	10
Dipropylene glycol	34590-94- 8	252-104-2	Long-term exposure limit (8-hour TWA) (ppm)	50
monomethyl ether			Long-term exposure limit (8-hour TWA) (mg/m3)	308
Ethyl godtate	141-78-6	205-500-4	Long-term exposure limit (8-hour TWA) (ppm)	200
Ethyl acetate			Short-term exposure limit (15-minute) (ppm)	400
Propylene glycol	F7. FF 0	200-338-0	Long-term exposure limit (8-hour TWA) (ppm)	150
ir ropyrene grycor	57-55-6		Long-term exposure limit (8-hour TWA) (mg/m3)	474

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

Appearance: Yellow in an 8ml vial





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Odour:

Odour threshold:

Not determined

PH:

Not determined

Flash point: > 61 °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 0.9470 - 0.9670 Relative density: Solubility(ies): Not determined Partition coefficient: n-octanol/water: Not determined **Auto-ignition temperature:** Not determined **Decomposition temperature:** Not determined Not determined **Viscosity: 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:

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).

Acute Toxicity:Based on available data the classification criteria are not met.

Acute Toxicity Oral 3410
Acute Toxicity Dermal >5000

Acute Toxicity Inhalation Not Available

Skin corrosion/irritation:Skin Corrosion / Irritation Category 2Serious eye damage/irritation:Eye Damage / Irritation Category 2Respiratory 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.

Based on available data the classification criteria are not met.

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
Allyl cyclohexanepropionate	2705-87-5	220-292-5	480	1600	111	Not available
Allyl heptanoate	142-19-8	205-527-1	218	810	3	Not available
Allyl hexanoate	123-68-2	204-642-4	300	300	3	Not available

Refer to Sections 2 and 3 for additional information.

Section 12. Ecological information

12.1 Toxicity:

Toxic 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





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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: UN3082

14.2 UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (dl-

Limonene (racemic), 1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-

hexamethylcyclopenta-gamma-2-benzopyran)

14.3 Transport hazard class(es): 9

Sub Risk:

14.4. Packing Group:

14.5 Environmental hazards: This is an environmentally hazardous substance.

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 applicable

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 C2=18.61% EH C3=1.85% EH C4=73.17% SCI 2=37.56% EDI 2=56.

24% EDI 2A=51.57% SS 1=22.66%

Total Fractional Values: EH C2=5.37 EH C3=54.08 EH C4=1.37 SCI 2=2.66 EDI 2=1.78 EDI 2A=1.

94 SS 1=4.41

Key to revisions:

Not applicable

Key to abbreviations:

Abbreviation	Meaning	
AH 1	Aspiration Hazard Category 1	
ATD 3	Acute Toxicity - Dermal Category 3	
ATD 4	Acute Toxicity - Dermal Category 4	
ATI 3	Acute Toxicity - Inhalation Category 3	





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ATI 4	Acute Toxicity - Inhalation Category 4
ATO 3	Acute Toxicity - Oral Category 3
ATO 4	Acute Toxicity - Oral Category 4
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
EH C3	Hazardous to the Aquatic Environment - Long-term Hazard Category 3
FL 3	Flammable Liquid, Hazard Category 3
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H320	Causes eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
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.
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.
P271	Use only outdoors or in a well-ventilated area.
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.





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D004/040			
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.		
P311	Call a POISON CENTRE 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.		
P361	Remove/Take off immediately all contaminated clothing.		
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 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.