

In accordance with UN GHS latest edition

Product: By The Fire LUX 0545

Version: 2

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

- **1.1 Product Identifier**
- **Product identifier:** By The Fire LUX 0545(Contains:Benzyl benzoate, Linalool, alpha-Hexylcinnamaldehyde, alpha-iso-Methylionone)
- Other identifiers: None

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

- Product uses: Fragrances
- 1.3 Details of the supplier of the safety data sheet

Company name: Luxaroma Pty Ltd				
Company address:	27 Union Circuit Yatala QLD 4207 Australia			
Contact:	Regulatory Affairs			
E-Mail address:	info@luxaroma.com.au			
Company phone: 1300 888 360				
1.4 Emergency telephone number				
Emergency phone: 1300 888 360				

Section 2. Hazards identification

2.1 Classification of the substance or mixture

	Flammable Liquid, Hazard Category 4				
danger:	Acute Toxicity - Oral Category 5				
	Skin Corrosion / Irritation Category 2				
	Eye Damage / Irritation Category 2				
	Sensitization - Skin Category 1				
	Hazardous to the Aquatic Environment - Acute Hazard Category 1				
	Hazardous to the Aquatic Environment - Long-term Hazard Category 2				
	H227, Combustible liquid.				
	H303, May be harmful if swallowed.				
	H315, Causes skin irritation.				
	H317, May cause an allergic skin reaction.				
	H319, Causes serious eye irritation.				
	H400, Very toxic to aquatic life.				
	H411, Toxic to aquatic life with long lasting effects.				
2.2 Label elements					
Signal word:	Warning				



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Hazard state	ments:	 H227, Combustible liquid. H303, May be harmful if swallowed. H315, Causes skin irritation. H317, May cause an allergic skin reaction. H319, Causes serious eye irritation. H400, Very toxic to aquatic life. H411, Toxic to aquatic life with long lasting effects.
Precautionar statements:	У	 P210, Keep away from heat, sparks, open flames and hot surfaces No smoking. 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. P312, Call a POISON CENTRE or doctor/physician if you feel unwell. P333/313, If skin irritation or rash occurs: Get medical advice/attention. P362, Take off contaminated clothing and wash 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.
Pictograms:		
2.3 Other haz Other hazard		None
		Section 3. Composition / information on ingredients

3.2 Mixtures

Contains:

Name	CAS	%	GHS Classification
alpha-Hexylcinnamaldehyde	101-86-0		Acute Tox. 5-Skin Irrit. 3-Skin Sens. 1B-Aquatic Acute 1-Aquatic Chronic 2;H303-H316-H317-H400-H411

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			Acute Tox. 4-Acute Tox. 5-Aquatic Acute 1-Aquatic	
Benzyl benzoate	120-51-4	10-<20%	Chronic 2;H302-H313-H400-H411	
alpha-iso-Methylionone	127-51-5	10-<20%	Skin Irrit. 3-Skin Sens. 1B-Aquatic Acute 2-Aquatic Chronic 2;H316-H317-H411	
Linalool	78-70-6	5-<10%	Flam. Liq. 4-Acute Tox. 5-Skin Irrit. 2-Eye Irrit. 2A-Skin Sens. 1B-Aquatic Acute 3;H227-H303-H315-H317- H319-H402	
Linalyl acetate	115-95-7	5-<10%	Flam. Liq. 4-Skin Irrit. 2-Eye Irrit. 2B-Skin Sens. 1B- Aquatic Acute 3;H227-H315-H317-H320-H402	
Dihydromyrcenol	18479-58-8	1-<5%	Flam. Liq. 4-Acute Tox. 5-Skin Irrit. 2-Eye Irrit. 2A- Aquatic Acute 3;H227-H303-H315-H319-H402	
Eugenol	97-53-0	1-<5%	Acute Tox. 5-Skin Irrit. 3-Eye Irrit. 2A-Skin Sens. 1B- Aquatic Acute 2;H303-H316-H317-H319-H401	
2-Ethyl-4-(2,2,3-trimethyl-3- cyclopenten-1-yl)-2-buten-1-ol	28219-61-6	1-<5%	Eye Irrit. 2A-Aquatic Acute 2-Aquatic Chronic 2;H319- H411	
Phenol, 2-methoxy-, reaction products with 2,2-dimethyl-3- methylenebicyclo[2.2.1]heptane, hydrogenated	70955-71-4	1-<5%	Skin Irrit. 3-Aquatic Acute 2-Aquatic Chronic 2;H316 H411	
241-NL Coumarin	91-64-5	1-<5%	Acute Tox. 4-Skin Sens. 1B-Aquatic Acute 3;H302- H317-H402	
Cedryl methyl ether	67874-81-1	1-<5%	Skin Sens. 1B-Aquatic Acute 1-Aquatic Chronic 1; H317-H410	
dl-Citronellol	106-22-9	1-<5%	Acute Tox. 5-Acute Tox. 5-Skin Irrit. 2-Eye Irrit. 2A- Sens. 1B-Aquatic Acute 2;H303-H313-H315-H317- H319-H401	
d-Limonene	5989-27-5	1-<5%	Flam. Liq. 3-Skin Irrit. 2-Skin Sens. 1B-Asp. Tox 1- Aquatic Acute 1-Aquatic Chronic 1;H226-H304-H315- H317-H410	
Patchouli alcohol	5986-55-0	1-<5%	Aquatic Acute 2-Aquatic Chronic 2;H411	
207-NL Cedrol	77-53-2	1-<5%	Flam. Liq. 4-Aquatic Acute 2-Aquatic Chronic 2;H227- H411	
alpha-Cedrene	469-61-4	1-<5%	Skin Irrit. 3-Asp. Tox 1-Aquatic Acute 1-Aquatic Chronic 1;H304-H316-H410	
Neryl acetate	141-12-8	1-<5%	Skin Sens. 1B-Aquatic Acute 2;H317-H401	
Benzyl salicylate	118-58-1	1-<5%	Acute Tox. 5-Eye Irrit. 2B-Skin Sens. 1B-Aquatic Acute 2-Aquatic Chronic 3;H303-H317-H320-H401-H412	
1-(1,2,3,4,5,6,7,8-Octahydro- 2,3,8,8-tetramethyl-2- naphthalenyl)ethanone	54464-57-2	0.1-<1%	Skin Irrit. 2-Skin Sens. 1B-Aquatic Acute 2-Aquatic Chronic 1;H315-H317-H401-H410	
alpha-Guaiene	3691-12-1	0.1-<1%	Skin Irrit. 2-Eye Irrit. 2A-Asp. Tox 1;H304-H315-H319	
trans-Anethole	4180-23-8	0.1-<1%	Acute Tox. 5-Skin Irrit. 3-Skin Sens. 1B-Aquatic Acute 2;H303-H316-H317-H401	
alpha-Amylcinnamaldehyde	122-40-7	0.1-<1%	Acute Tox. 5-Skin Irrit. 3-Skin Sens. 1B-Aquatic Acute 2-Aquatic Chronic 2;H303-H316-H317-H411	
197-NL Camphor Powder	464-49-3	0.1-<1%	Flam. Liq. 4-Flam. Sol. 2-Acute Tox. 4-Acute Tox. 4- Skin Irrit. 2-Eye Dam. 1-STOT SE 2-Aquatic Acute 2: Aquatic Chronic 2;H227-H228-H302-H315-H318-H3: H371-H411	
beta-Cedrene	546-28-1	0.1-<1%	Skin Irrit. 3-Asp. Tox 1-Aquatic Acute 1-Aquatic Chronic 1;H304-H316-H410	
beta-Caryophyllene	87-44-5	0.1-<1%	Skin Sens. 1B-Asp. Tox 1-Aquatic Chronic 4;H304- H317-H413	
Piperonal	120-57-0	0.1-<1%	Acute Tox. 5-Skin Sens. 1B-Aquatic Acute 2;H303- H317-H401	
1,7,7-Trimethylbicyclo[2.2.1] heptan-2-one	76-22-2	0.1-<1%	Flam. Liq. 4-Flam. Sol. 2-Acute Tox. 4-Acute Tox. 4- Skin Irrit. 2-Eye Dam. 1-STOT SE 2-Aquatic Acute 2- Aquatic Chronic 2;H227-H228-H302-H315-H318-H332- H371-H411	
Eucalyptol	470-82-6	0.1-<1%	Flam. Liq. 3-Acute Tox. 5-Skin Irrit. 3-Skin Sens. 1B; H226-H303-H316-H317	



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594-NL Thymol	89-83-8		Acute Tox. 4-Skin Corr. 1B-Eye Dam. 1-Aquatic Acute 2-Aquatic Chronic 2;H302-H314-H411
trans beta-Ocimene	3779-61-1		Acute Tox. 5-Skin Irrit. 2-Asp. Tox 1-Aquatic Acute 1- Aquatic Chronic 2;H303-H304-H315-H400-H411
Cinnamaldehyde	104-55-2	<0.1%	Acute Tox. 5-Acute Tox. 4-Skin Irrit. 2-Eye Irrit. 2A-Skin Sens. 1A-Aquatic Acute 2;H303-H312-H315-H317- H319-H401

Substances with workplace exposure limits, not listed above:

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:** 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 be harmful if swallowed.

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.

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.



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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):

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

Section 8. Exposure controls/personal protection

8.1 Control parameters

Workplace exposure limits: Not Applicable

8.2 Exposure Controls

Eye / Skin Protection

Wear protective gloves/eye protection/face protection

Respiratory Protection

Under normal conditions of use and where adequate ventilation is available to prevent build up of excessive vapour, this material should not require special engineering controls. However, in conditions of high or prolonged use, or high temperature or other conditions which increase exposure, the following engineering controls can be used to minimise exposure to personnel: a) Increase ventilation of the area with local exhaust ventilation. b) Personnel can use an approved, appropriately fitted respirator with organic vapour cartridge or canisters and particulate filters. c) 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:

Clear Yellow

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Odour:	Not determined
Odour threshold:	Not determined
pH:	Not determined
Melting point / freezing point:	Not determined
Initial boiling point / range:	Not determined
Flash point:	> 90 °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:	Not determined
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:

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 UN GHS.

Acute Toxicity:	Acute Toxicity - Oral Category 5
Acute Toxicity Oral	3659
Acute Toxicity Dermal	>5000
Acute Toxicity Inhalation	Not Available
Skin corrosion/irritation:	Skin Corrosion / Irritation Category 2
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	LD50/ATE Oral	LD50/ATE Dermal	LC50/ATE Inhalation	LC50 Route
241-NL Coumarin	91-64-5	500	Not available	Not available	Not available
Benzyl benzoate	120-51-4	1500	4000	Not available	Not available
Benzyl salicylate	118-58-1	2200	Not available	Not available	Not available
Dihydromyrcenol	18479-58-8	3600	Not available	Not available	Not available
Eugenol	97-53-0	2500	Not available	Not available	Not available
Linalool	78-70-6	2790	Not available	Not available	Not available
alpha- Hexylcinnamaldehyde	101-86-0	3100	Not available	Not available	Not available
dl-Citronellol	106-22-9	3450	2650	Not available	Not available

Refer to Sections 2 and 3 for additional information.

Section 12. Ecological information

12.1 Toxicity:

Very toxic to aquatic life.

Toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability:

Not available



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12.3 Bioaccumulative potential:		Not available
12.4 Mobility in soil:		Not available
12.5 Other ad	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	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (alpha- Cedrene, beta-Cedrene)	9	-	111
IMDG	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (alpha- Cedrene, beta-Cedrene) MARINE POLLUTANT	9	-	111
ADR,RID,ADN	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (alpha- Cedrene, beta-Cedrene)	9	-	
ICAO TI	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (alpha- Cedrene, beta-Cedrene)	9	-	

14.5 Environmental hazards:

This is classified as an environmentally hazardous substance under the UN Model Regulations. This is classified as a Marine Pollutant under the IMDG Code.

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

None additional

Section 16. Other information



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Concentration % Limits:

EH A1=40.12% EH A2=3.86% EH A3=0.38478327% EH C2=9.06% EH C3=0.90572345% EH C4=30.45% SCI 2=51.24% SCI 3=3.82% EDI 2A=30.82% SS 1=3.88%

Total Fractional Values:

EH A1=2.49 EH A2=25.92 EH A3=259.89 EH C2=11.04 EH C3=110.41 EH C4=3.28 SCI 2=1.95 SCI 3=26.20 EDI 2A=3.24 SS 1=25.80

Key to revisions:

Concentration % Limits

GHS Workplace Exposure Limits

Hazardous Ingredients declard in a GHS Product Identifier

Information about hazardous ingredients in the mixture

SECTION 3: Composition/information on ingredients

Key to abbreviations:

Abbreviation	Meaning	
Acute Tox. 4	Acute Toxicity - Oral Category 4	
Acute Tox. 4	Acute Toxicity - Inhalation Category 4	
Acute Tox. 4	Acute Toxicity - Dermal Category 4	
Acute Tox. 5	Acute Toxicity - Oral Category 5	
Acute Tox. 5	Acute Toxicity - Dermal Category 5	
Aquatic Acute 1	Hazardous to the Aquatic Environment - Acute Hazard Category 1	
Aquatic Acute 2	Hazardous to the Aquatic Environment - Acute Hazard Category 2	
Aquatic Acute 3	Hazardous to the Aquatic Environment - Acute Hazard Category 3	
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	
Aquatic Chronic 4	Hazardous to the Aquatic Environment - Long-term Hazard Category 4	
Asp. Tox 1	Aspiration Hazard Category 1	
Eye Dam. 1	Eye Damage / Irritation Category 1	
Eye Irrit. 2A	Eye Damage / Irritation Category 2A	
Eye Irrit. 2B	Eye Damage / Irritation Category 2B	
Flam. Liq. 3	Flammable Liquid, Hazard Category 3	
Flam. Liq. 4	Flammable Liquid, Hazard Category 4	
Flam. Sol. 2	Flammable Solid, Hazard Category 2	
H226	Flammable liquid and vapour.	
H227	Combustible liquid.	
H228	Flammable solid.	
H302	Harmful if swallowed.	
H303	May be harmful if swallowed.	
H304	May be fatal if swallowed and enters airways.	
H312	Harmful in contact with skin.	
H313	May be harmful in contact with skin.	
H314	Causes severe skin burns and eye damage.	
H315	Causes skin irritation.	



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H316 Causes mild skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage H319 Causes serious eye irritation H320 Causes eye irritation. H332 Harmful if inhaled. H371 May cause damage to organs (organs, exposure route). H400 Very toxic to aquatic life. H401 Toxic to aquatic life. H402 Harmful 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. H413 May cause long lasting harmful effects to aquatic life. 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. 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. P301/330/331 If swallowed: Rinse mouth. Do not induce vomiting. P302/352 IF ON SKIN: Wash with plenty of soap and water. IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. P303/361/353 P304/340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to P305/351/338 do. Continue rinsing IF exposed or if you feel unwell: Call a POISON CENTRE or doctor/physician. P309/311 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.



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If skin irritation or rash occurs: Get medical advice/attention.	
If eye irritation persists: Get medical advice/attention.	
Take off contaminated clothing and wash before reuse.	
Wash contaminated clothing before reuse.	
In case of fire: Use carbon dioxide, dry chemical, foam for extinction.	
Collect spillage.	
Store in a well-ventilated place. Keep cool.	
Store locked up.	
Dispose of contents/container to approved disposal site, in accordance with local regulations.	
Specific Target Organ Toxicity (Single Exposure) Category 2	
Skin Corrosion / Irritation Category 1B	
Skin Corrosion / Irritation Category 2	
Skin Corrosion / Irritation Category 3	
Sensitization - Skin Category 1A	
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.