

In accordance with UN GHS latest edition

Product: Lime, Basil & Mandarin LUX 0085

Version: 2

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

- **1.1 Product Identifier**
- Product identifier:
   Lime, Basil & Mandarin LUX 0085(Contains:Estragole, Linalool, d-Limonene, p-t-Butyl-alphamethylhydrocinnamic aldehyde)
- 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 telepho	one number	
Emergency phone:	1300 888 360	

#### Section 2. Hazards identification

#### 2.1 Classification of the substance or mixture

Class and category of danger:	Flammable Liquid, Hazard Category 4 Skin Corrosion / Irritation Category 2 Eye Damage / Irritation Category 2 Sensitization - Skin Category 1 Germ Cell Mutagenicity Category 2 Carcinogenicity Category 2 Toxic to Reproduction Category 2 Aspiration Hazard Category 1 Hazardous to the Aquatic Environment - Acute Hazard Category 1 Hazardous to the Aquatic Environment - Long-term Hazard Category 1 H227, Combustible liquid. H304, May be fatal if swallowed and enters airways. H315, Causes skin irritation. H317, May cause an allergic skin reaction. H319, Causes serious eye irritation. H341, Suspected of causing genetic defects (exposure route).
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Product:	Lime, E	Basil & Mandarin LUX 0085	
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		H410, Very toxic to aquatic life with long lasting effects.	
2.2 Label elei	ments		
Signal word:		Danger	
Hazard state	monte	H227, Combustible liquid.	
	nents.	H304, May be fatal if swallowed and enters airways.	
		H315, Causes skin irritation.	
		H317, May cause an allergic skin reaction.	
		H319, Causes serious eye irritation.	
		H341, Suspected of causing genetic defects (exposure route).	
		H351, Suspected of causing cancer (exposure route).	
		H361, Suspected of damaging fertility or the unborn child (exposure route).	
		H410, Very toxic to aquatic life with long lasting effects.	
Precautionar	у	P202, Do not handle until all safety precautions have been read and understood.	
statements:		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.		
		P301/310, IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.	
		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. P308/313, IF exposed or concerned: Get medical advice/attention.	
		P331, Do not induce vomiting.	
		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.	
		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.	
		NV	
Pictograms:			

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#### 2.3 Other hazards

Other hazards: None

#### Section 3. Composition / information on ingredients

#### 3.2 Mixtures

#### **Contains:**

Name	CAS	%	GHS Classification
d-Limonene	5989-27-5	20-<50%	Flam. Liq. 3-Skin Irrit. 2-Skin Sens. 1B-Asp. Tox 1- Aquatic Acute 1-Aquatic Chronic 1;H226-H304-H315- H317-H410
Linalool	78-70-6	10-<20%	Flam. Liq. 4-Acute Tox. 5-Skin Irrit. 2-Eye Irrit. 2A-Skin Sens. 1B-Aquatic Acute 3;H227-H303-H315-H317- H319-H402
Methyl dihydrojasmonate	24851-98-7	10-<20%	Aquatic Acute 3;H402
alpha-iso-Methylionone	127-51-5	5-<10%	Skin Irrit. 3-Skin Sens. 1B-Aquatic Acute 2-Aquatic Chronic 2;H316-H317-H411
p-t-Butyl-alpha- methylhydrocinnamic aldehyde	80-54-6	1-<5%	Flam. Liq. 4-Acute Tox. 4-Skin Irrit. 2-Skin Sens. 1B- Repr. 2-Aquatic Acute 2-Aquatic Chronic 3;H227-H302- H315-H317-H361-H401-H412
alpha-Methyl-1,3-benzodioxole- 5-propionaldehyde	1205-17-0	1-<5%	Acute Tox. 5-Skin Sens. 1B-Repr. 2-Aquatic Acute 2- Aquatic Chronic 2;H303-H317-H361-H411
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
Hydroxycitronellal	107-75-5	1-<5%	Eye Irrit. 2A-Skin Sens. 1B-Aquatic Acute 3;H317- H319-H402
Estragole	140-67-0	1-<5%	Flam. Liq. 4-Acute Tox. 4-Skin Irrit. 2-Skin Sens. 1B- Muta. 2-Carc. 2-Aquatic Acute 2-Aquatic Chronic 3; H227-H302-H315-H317-H341-H351-H401-H412
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
4-tert-Butylcyclohexyl acetate	32210-23-4	0.1-<1%	Acute Tox. 5-Skin Sens. 1B-Aquatic Acute 2;H303- H317-H401
Acetyl cedrene	32388-55-9	0.1-<1%	Acute Tox. 5-Skin Sens. 1B-Aquatic Acute 1-Aquatic Chronic 1;H303-H317-H410
483-NL Mousse de Metra	4707-47-5	0.1-<1%	Skin Sens. 1B-Aquatic Acute 2;H317-H401
2,4-Dimethyl-3-cyclohexen-1- carboxaldehyde	68039-49-6	0.1-<1%	Flam. Liq. 4-Acute Tox. 5-Skin Irrit. 2-Eye Irrit. 2A-Skin Sens. 1B-Aquatic Acute 2-Aquatic Chronic 2;H227- H303-H315-H317-H319-H411
Reaction mass of (1S,3aR,4S, 8aS)-4,8,8-trimethyl-9- methylidenedecahydro-1,4- methanoazulene and (1R,4E,9S) -4,11,11-trimethyl-8- methylidenebicyclo[7.2.0]undec- 4-ene	475-20-7, 87-44-5	0.1-<1%	Skin Irrit. 2-Skin Sens. 1B-Asp. Tox 1-Aquatic Acute 1- Aquatic Chronic 1;H304-H315-H317-H410
alpha-Guaiene	3691-12-1	0.1-<1%	Skin Irrit. 2-Eye Irrit. 2A-Asp. Tox 1;H304-H315-H319
beta-Cedrene	546-28-1	0.1-<1%	Skin Irrit. 3-Asp. Tox 1-Aquatic Acute 1-Aquatic Chronic 1;H304-H316-H410
Benzyl benzoate	120-51-4	0.1-<1%	Acute Tox. 4-Acute Tox. 5-Aquatic Acute 1-Aquatic Chronic 2;H302-H313-H400-H411
Linalyl acetate	115-95-7	0.1-<1%	Flam. Liq. 4-Skin Irrit. 2-Eye Irrit. 2B-Skin Sens. 1B- Aquatic Acute 3;H227-H315-H317-H320-H402
594-NL Thymol	89-83-8	0.1-<1%	Acute Tox. 4-Skin Corr. 1B-Eye Dam. 1-Aquatic Acute 2-Aquatic Chronic 2;H302-H314-H411



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beta-Caryophyllene	87-44-5	0.1-<1%	Skin Sens. 1B-Asp. Tox 1-Aquatic Chronic 4;H304- H317-H413
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#### 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: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

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

May be fatal if swallowed and enters airways.

Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye irritation.

Suspected of causing genetic defects (exposure route).

Suspected of causing cancer (exposure route).

Suspected of damaging fertility or the unborn child (exposure route).

#### 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.



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#### 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

Clear Yellow/Orange
Not determined
Not determined



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pH:	Not determined
Melting point / freezing point:	Not determined
Initial boiling point / range:	Not determined
Flash point:	> 60 °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.

#### 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.

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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:	Based on available data the classification criteria are not met.
Acute Toxicity Oral	>5000
Acute Toxicity Dermal	Not Applicable
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:	Germ Cell Mutagenicity Category 2
Carcinogenicity:	Carcinogenicity Category 2
Reproductive toxicity:	Toxic to Reproduction Category 2
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:	Aspiration Hazard Category 1

#### Information about hazardous ingredients in the mixture

Ingredient	CAS	LD50/ATE Oral	LD50/ATE Dermal	LC50/ATE Inhalation	LC50 Route
Dihydromyrcenol	18479-58-8	3600	Not available	Not available	Not available
Estragole	140-67-0	1230	Not available	Not available	Not available
Linalool	78-70-6	2790	Not available	Not available	Not available
alpha-Methyl-1,3- benzodioxole-5- propionaldehyde	1205-17-0	3562	Not available	Not available	Not available
p-t-Butyl-alpha- methylhydrocinnamic aldehyde	80-54-6	1390	Not available	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 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 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:	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. (d- Limonene, alpha-Cedrene)	9	-	
IMDG	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (d- Limonene, alpha-Cedrene) MARINE POLLUTANT	9	-	111
ADR,RID,ADN	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (d- Limonene, alpha-Cedrene)	9	-	
ICAO TI	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (d- Limonene, alpha-Cedrene)	9	-	111

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

Concentration % Limits:	EH A1=68.09% EH A2=6.50% EH A3=0.64335541% EH C1=68.50% EH C2=6.64% EH C3=0.66290895% EH C4=46.55% SCI 2=19.29% SCI 3=1. 85% EDI 2A=36.95% SS 1=4.47% MUT 2=69.44% CAR 2=69.44% REP 2=71.94% AH 1=42.67%
Total Fractional Values:	EH A1=1.47 EH A2=15.37 EH A3=155.44 EH C1=1.46 EH C2=15.06 EH C3=150.85 EH C4=2.15 SCI 2=5.18 SCI 3=54.03 EDI 2A=2.71 SS 1=22. 38 MUT 2=1.44 CAR 2=1.44 REP 2=1.39 AH 1=2.34
Key to revisions:	

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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 Total Fractional Values

#### Key to abbreviations:

Abbreviation	Meaning
Acute Tox. 4	Acute Toxicity - Oral 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
Carc. 2	Carcinogenicity Category 2
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
H226	Flammable liquid and vapour.
H227	Combustible liquid.
H302	Harmful if swallowed.
H303	May be harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H313	May be harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H316	Causes mild skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H320	Causes eye irritation.
H341	Suspected of causing genetic defects (exposure route).
H351	Suspected of causing cancer (exposure route).
H361	Suspected of damaging fertility or the unborn child (exposure route).
H400	Very toxic to aquatic life.



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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. Muta. 2 Germ Cell Mutagenicity Category 2 P202 Do not handle until all safety precautions have been read and understood. 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. 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. P308/313 IF exposed or concerned: Get medical advice/attention. 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.



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P405	Store locked up.
P501	Dispose of contents/container to approved disposal site, in accordance with local regulations.
Repr. 2	Toxic to Reproduction Category 2
Skin Corr. 1B	Skin Corrosion / Irritation Category 1B
Skin Irrit. 2	Skin Corrosion / Irritation Category 2
Skin Irrit. 3	Skin Corrosion / Irritation Category 3
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.