

## 1. IDENTIFICATION

**Product Name:** Lemongrass Fragrance  
**Product Use Description:** Fragrance for Consumer Product.

**Contact Information:**

Organisation	Location	Telephone	Ask For
Adelaide Moulding and Candle Supplies	7 Woodlands Terrace Edwardstown, South Australia, 5039	08 8294 0451	SDS Officer
Poisons Information Centre		13 11 26	

## 2. HAZARD IDENTIFICATION

**Classification of Substance of Mixture:**

Flammable Liquid, Hazard Category 4  
Acute Toxicity - Dermal Category 5  
Skin Corrosion / Irritation Category 2  
Eye Damage / Irritation Category 2  
Sensitization - Skin Category 1  
Hazardous to the Aquatic Environment - Acute Hazard Category 2  
Hazardous to the Aquatic Environment - Long-term Hazard Category 2  
H227, Combustible liquid.  
H313, May be harmful in contact with skin.  
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.

**Hazard Pictogram(s):**



**Signal Word:** WARNING

**Hazard Statements (s):**

H227, Combustible liquid.  
H313, May be harmful in contact with skin.  
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.

**Precautionary Statements(s):**

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.  
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.  
P501, Dispose of contents/container to approved disposal site, in accordance with local regulations.

**Other Hazards:** None

### 3. INFORMATION ON INGREDIENTS

**Mixtures:**

Name	CAS No.	%	GHS Classification
Citral	5392-40-5	50-100%	Acute Tox. 5-Skin Irrit. 2-Eye Irrit. 2A-Skin Sens. 1B-Aquatic Acute 2;H313-H315-H317-H319-H401
Diethyl phthalate	84-66-2	20-<50%	Skin Irrit. 3-Aquatic Acute 3;H316-H402
2-Hexyl-(E)-cinnamaldehyde	165184-98-5, 101-86-0	1-<5%	Acute Tox. 5-Skin Irrit. 3-Skin Sens. 1B-Aquatic Acute 1-Aquatic Chronic 2;H303-H316-H317-H400-H411
Butylated hydroxytoluene	128-37-0	1-<5%	Aquatic Acute 1-Aquatic Chronic 1;H410
Citronellol	106-22-9	1-<5%	Acute Tox. 5-Acute Tox. 5-Skin Irrit. 2-Eye Irrit. 2A-Skin Sens. 1B-Aquatic Acute 2;H303-H313-H315-H317-H319-H401
1,3,4,6,7,8-Hexahydro-4,6,6,7,8-hexamethylcyclopenta-gamma-2-benzopyran	1222-05-5	1-<5%	Skin Irrit. 3-Aquatic Acute 1-Aquatic Chronic 1;H316-H410
4-tert-Butylcyclohexyl acetate	32210-23-4	0.1-<1%	Acute Tox. 5-Skin Sens. 1B-Aquatic Acute 2;H303-H317-H401
Isohexenyl cyclohexenyl Carboxaldehyde	37677-14-8	0.1-<1%	Skin Sens. 1B-Aquatic Acute 2-Aquatic Chronic 2;H317-H411
Geranyl acetate	105-87-3	0.1-<1%	Skin Irrit. 2-Skin Sens. 1B-Aquatic Acute 2-Aquatic Chronic 3;H315-H317-H401-H412
dl-Limonene (racemic)	138-86-3	0.1-<1%	Flam. Liq. 3-Skin Irrit. 2-Skin Sens. 1B-Asp. Tox 1-Aquatic Acute 1-Aquatic Chronic 1;H226-H304-H315-H317-H410
Dimyrcetol	18479-58-8	0.1-<1%	Flam. Liq. 4-Acute Tox. 5-Skin Irrit. 2-Eye Irrit. 2A-Aquatic Acute 3;H227-H303-H315-H319-H402
Limonene	5989-27-5	0.1-<1%	Flam. Liq. 3-Skin Irrit. 2-Skin Sens. 1B-Asp. Tox 1-Aquatic Acute 1-Aquatic Chronic 1;H226-H304-H315-H317-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
Benzyl salicylate	118-58-1	0.1-<1%	Acute Tox. 5-Eye Irrit. 2B-Skin Sens. 1B-Aquatic Acute 2-Aquatic Chronic 3;H303-H317-H320-H401-H412

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

Not Applicable

## 4. FIRST AID MEASURES

<b>Inhalation:</b>	Remove from exposure site to fresh air, keep at rest, and obtain medical attention.
<b>Eye Exposure:</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses. If present and easy to do. Continue rinsing.
<b>Skin Exposure:</b>	IF ON SKIN: Wash with plenty of soap and water.
<b>Ingestion:</b>	Rinse mouth with water and obtain medical attention.
<b>Most Important Symptoms Acute and Delayed:</b>	May be harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.
<b>Indications of Immediate Medical Attention and Special Treatment Needed:</b>	None expected, see Section 4.1 for further information.

## 5. FIRE FIGHTING MEASURES

<b>Suitable extinguishing media:</b>	Carbon dioxide, Dry chemical, Foam.
<b>Hazardous Combustion Products:</b>	In case of fire, may be liberated: Carbon monoxide, Unidentified organic compounds.
<b>Advice for Fire Fighters:</b>	In case of insufficient ventilation, wear suitable respiratory equipment.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Protective Equipment, Personal Precautions and Emergency Procedures:</b>	Avoid inhalation. Avoid contact with skin and eyes. See protective measures under Section 7 and 8.
<b>Environmental Precautions:</b>	Keep away from drains, surface and ground water, and soil.
<b>Methods and Suitable materials for containment and cleaning up:</b>	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.
<b>Reference to other sections:</b>	Also refer to sections 8 and 13.

## 7. HANDLING AND STORAGE

<b>Safe Handling:</b>	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.
<b>Safe storage, including any incompatibilities:</b>	Store in a well-ventilated place. Keep container tightly closed. To prevent congealing and denaturing it is recommended that goods are stored at temperatures between 15 - 30°C. 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.
<b>Specific end use(s):</b>	Fragrances: Use in accordance with good manufacturing and industrial hygiene practices.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Workplace exposure limits:</b>	<b>Not Applicable</b>
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## 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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Faint Yellow - Pale Straw
<b>Odour:</b>	Herbal, Lemongrass, Citrus
<b>Odour threshold:</b>	Not determined
<b>pH:</b>	Not determined
<b>Melting point / freezing point:</b>	Not determined
<b>Initial boiling point/range:</b>	Not determined
<b>Flash Point:</b>	78 °C
<b>Evaporation rate:</b>	Not determined
<b>Flammability (solid, gas):</b>	Not determined
<b>Upper/lower flammability or explosive limits:</b>	Product does not present an explosion hazard
<b>Vapour pressure:</b>	Not determined
<b>Vapour density:</b>	Not determined
<b>Relative density:</b>	0.9390 - 0.9530
<b>Solubility(ies):</b>	Not determined
<b>Partition coefficient:</b>	Not determined
<b>n-octanol/water:</b>	
<b>Auto-ignition temperature:</b>	Not determined
<b>Decomposition temperature:</b>	Not determined
<b>Viscosity:</b>	Not determined
<b>Explosive properties:</b>	Not expected
<b>Oxidising properties:</b>	Not expected
<b>Other information:</b>	None available

## 10. STABILITY AND REACTIVITY

<b>Reactivity Hazards:</b>	Presents no significant reactivity hazard, by itself or in contact with water.
<b>Chemical Stability:</b>	Good stability under normal storage conditions.
<b>Hazardous Reactions:</b>	Not expected under normal conditions of use.
<b>Conditions to Avoid:</b>	Avoid extreme heat.
<b>Incompatibles:</b>	Avoid contact with strong acids, alkalis, or oxidising agents.
<b>Hazardous Decomposition Products:</b>	Not expected.

## 11. TOXICOLOGICAL INFORMATION

This mixture has not been tested as a whole for health effects. The health effects have been calculated using the methods outlined in the UN GHS.

**Acute Toxicity:** Acute Toxicity - Dermal Category 5  
Acute Toxicity Oral: >5000  
Acute Toxicity Dermal: 3548  
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
2-Hexyl-(E)-Cinnamaldehyde	165184-98-5, 101-86-0	3100	Not available	Not available	Not available
Citral	5392-40-5	Not available	2250	Not available	Not available
Citronellol	106-22-9	3450	2650	Not available	Not available

Refer to Sections 2 and 3 for additional information.

## 12. ECOLOGICAL INFORMATION

**Toxicity:** Very toxic to aquatic life with long lasting effects.

**Persistence and degradability:** Not available.

**Bioaccumulative potential:** Not available.

**Mobility in soil:** Not available.

**Other Adverse Effects:** Not available.

## 13. DISPOSAL CONSIDERATIONS

**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.

## 14. TRANSPORT INFORMATION

	UN Number	UN Proper Shipping Name	Transport hazard class(es)	Sub Risk	Packing Group
<b>UN Model Regulations</b>	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylcyclopenta-gamma-2-benzopyran, Butylated hydroxytoluene)	9	-	III
<b>IMDG</b>	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	9	-	III

		(1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylcyclopenta-gamma-2-benzopyran, Butylated hydroxytoluene) MARINE POLLUTANT			
<b>ADR,RID,ADN</b>	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylcyclopenta-gamma-2-benzopyran, Butylated hydroxytoluene)	9	-	III
<b>ICAO TI</b>	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylcyclopenta-gamma-2-benzopyran, Butylated hydroxytoluene)	9	-	III

**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.

**Special Precautions for user:** None additional

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Not Applicable

## 15. REGULATORY INFORMATION

**Regulatory Information:** None additional

## 16. OTHER INFORMATION

**Concentration % Limits:** EH A2=21.55% EH A3=2.11% EH C2=78.21% EH C3=7.82% SCI 2=15.73% SCI 3=1.46% EDI 2A=15.73% SS 1=1.60%

**Total Fractional Values:** EH A2=4.64 EH A3=47.41 EH C2=1.28 EH C3=12.79 SCI 2=6.36 SCI 3=68.42 EDI 2A=6.36 SS 1=62.56

**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
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
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.
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.
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.
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.
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.
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.
Skin Irrit. 2	Skin Corrosion / Irritation Category 2
Skin Irrit. 3	Skin Corrosion / Irritation Category 3
Skin Sens. 1B	Sensitization - Skin Category 1B

#### Further Information

The information in this safety data sheet is to the best of our knowledge true and accurate, but all data, instructions, and recommendations and/or suggestions are made without guarantee.

The Material Safety Data Sheet is intended to provide information for a health and safety assessment of the material. This document is not intended for quality assurance purposes.