

1. IDENTIFICATION

Product Name: Lemongrass, Lime and Grapefruit Blend Essential Oil

Other Names:

Product Use Description: Fragrance

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 3
Skin Corrosion / 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
H226, Flammable liquid and vapour.
H315, Causes skin irritation.
H317, May cause an allergic skin reaction.
H411, Toxic to aquatic life with long lasting effects.

Signal Word: Warning

Hazard Statements (s): H226, Flammable liquid and vapour.
H315, Causes skin irritation.
H317, May cause an allergic skin reaction.
H411, Toxic to aquatic life with long lasting effects.

Precautionary Statements(s): 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.
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.
P303/361/353, IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
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.

Hazard Pictogram(s):



Other hazards: None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures:

Name	CAS	%	GHS Classification
Limonene	5989-27-5	5-<10%	Flam. Liq. 3-Skin Irrit. 2-Skin Sens. 1B-Asp. Tox 1-Aquatic Acute 1-Aquatic Chronic 1;H226-H304-H315-H317-H410
Citral	5392-40-5	5-<10%	Acute Tox. 5-Skin Irrit. 2-Eye Irrit. 2A-Skin Sens. 1BAquatic Acute 2;H313-H315-H317-H319-H401
Geraniol	106-24-1	0.1-<1%	Acute Tox. 5-Skin Irrit. 2-Eye Dam. 1-Skin Sens. 1-Aquatic Acute 3;H303-H315-H317-H318-H402
Geranyl acetate	105-87-3	0.1-<1%	Skin Irrit. 2-Skin Sens. 1B-Aquatic Acute 2-Aquatic Chronic 3;H315-H317-H401-H412
Myrcene	123-35-3	0.1-<1%	Flam. Liq. 3-Skin Irrit. 2-Eye Irrit. 2A-Asp. Tox 1;H226-H304-H315-H319
l-Limonene	5989-54-8	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
Isocitral #3	UNKNOWN	0.1-<1%	Acute Tox. 5-Skin Irrit. 3-Eye Irrit. 2A-Skin Sens. 1BAquatic Acute 3-Aquatic Chronic 3;H303-H316-H317-H319-H412
Terpinolene	586-62-9	0.1-<1%	Flam. Liq. 4-Acute Tox. 5-Skin Irrit. 3-Skin Sens. 1BAsp. Tox 1-Aquatic Acute 1-Aquatic Chronic 1;H227-H303-H304-H316-H317-H410
alpha-Terpineol	98-55-5	0.1-<1%	Flam. Liq. 4-Acute Tox. 5-Skin Irrit. 2-Eye Irrit. 2AAquatic Acute 2;H227-H303-H315-H319-H401
beta-Caryophyllene	87-44-5	0.1-<1%	Skin Irrit. 3-Skin Sens. 1B-Asp. Tox 1;H304-H316-H317
Isocitral #2	72203-98-6	0.1-<1%	Acute Tox. 5-Skin Irrit. 3-Eye Irrit. 2A-Skin Sens. 1BAquatic Acute 3-Aquatic Chronic 3;H303-H316-H317-H319-H412

Substances with Community workplace exposure limits, not listed above: Not Applicable

4. FIRST AID MEASURES

Inhalation: Remove from exposure site to fresh air, keep at rest, and obtain medical attention.

Eye Exposure: IF IN EYES: Flush immediately with water for at least 15 minutes. Contact physician if symptoms persist.

Skin Exposure: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

Ingestion: IF SWALLOWED: Rinse mouth with water and obtain medical attention.

Most important symptoms and effects, both acute and delayed: Causes skin irritation.
May cause an allergic skin reaction.

Indication of any immediate medical attention and special treatment needed: None expected, see Section 4.1 for further information.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media:	Carbon dioxide, Dry chemical, Foam.
Special hazards arising from substance or mixture:	In case of fire, may be liberated: Carbon monoxide, Unidentified organic compounds.
Advice for Fire Fighters:	In case of insufficient ventilation, wear suitable respiratory equipment.

6. ACCIDENTAL RELEASE MEASURES

Protective precautions, protective equipment and emergency procedures:	Avoid inhalation. Avoid contact with skin and eyes. See protective measures under Section 7 and 8.
Environmental Precautions:	Keep away from drains, surface and ground water, and soil.
Methods and Suitable materials for spill containment:	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.
Reference to other sections:	Also refer to sections 8 and 13.

7. HANDLING AND STORAGE

Precautions for safe handling:	Keep away from heat, sparks, open flames and hot surfaces. - No smoking.
Conditions for safe storage, including any incompatibilities:	Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge.
Specific end use(s):	Fragrances: Use in accordance with good manufacturing and industrial hygiene practices.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace exposure limits: Not Applicable

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:

- Increase ventilation of the area with local exhaust ventilation.
- Personnel can use an approved, appropriately fitted respirator with organic vapour cartridge or canisters and particulate filters.
- Use closed systems for transferring and processing this material.

Also refer to Sections 2 and 7.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Colourless - faint yellow
Odour:	Herbal, Lemongrass, Vanilla
Odour threshold:	Not determined
pH:	Not determined
Melting point / freezing point:	Not determined
Initial boiling point / range:	Not determined
Flash point:	35 °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:	0.9329 - 0.9469
Solubility(ies):	Not determined
Partition coefficient:	Not determined
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
Other information:	None available

10. STABILITY AND REACTIVITY

Reactivity Hazards:	Presents no significant reactivity hazard, by itself or in contact with water.
Chemical Stability:	Good stability under normal storage conditions.
Hazardous Reactions:	Not expected under normal conditions of use.
Conditions to Avoid:	Avoid extreme heat.
Incompatibles:	Avoid contact with strong acids, alkalis, or oxidising agents.
Hazardous Decomposition Products:	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:	Based on available data the classification criteria are not met. Acute Toxicity Oral: Not Applicable Acute Toxicity Dermal: >5000 Acute Toxicity Inhalation: Not Available
Skin corrosion/irritation:	Skin Corrosion / Irritation Category 2
Serious eye damage/irritation:	Based on available data the classification criteria are not met.
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
Citral	5392-40-5	Not available	2250	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.
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Persistence and degradability: Not Available

Bioaccumulative potential: Not Available

Mobility in soil: Not Available

Other Adverse Effects: Not Available

13. DISPOSAL CONSIDERATIONS

Disposal: 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
UN Model Regulations	UN1169	EXTRACTS, AROMATIC, LIQUID	3	-	III
IMDG	UN1169	EXTRACTS, AROMATIC, LIQUID (Limonene) MARINE POLLUTANT	3	-	III
ADR,RID,AND	UN1169	EXTRACTS, AROMATIC, LIQUID	3	-	III
ICAO TI	UN1169	EXTRACTS, AROMATIC, LIQUID	3	-	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=27.22% EH A3=2.72% EH C2=29.07% EH C3=2.91% SCI 2=70. 61% SCI 3=6.61% SS 1=12.03%

Total Fractional Values: EH A2=3.67 EH A3=36.74 EH C2=3.44 EH C3=34.40 SCI 2=1.42 SCI 3=15.14 SS 1=8.31

Key to revisions:

- 14.2. UN proper shipping name
- Concentration % Limits
- GHS Workplace Exposure Limits
- Hazardous Ingredients declared 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. 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 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 2
Flam. Liq. 3	Flammable Liquid, Hazard Category 3
Flam. Liq. 4	Flammable Liquid, Hazard Category 4
H226	Flammable liquid and vapour.
H227	Combustible liquid.
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.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H401	Toxic to aquatic life.
H402	Harmful to aquatic life.
H410	Very 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.
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.
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.
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. 1	Sensitization - Skin Category 1
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, 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.