

1. IDENTIFICATION

Product Name: Kakadu Plum Fragrance

Other Names: Kakadu Plum (Contains:1-(1,2,3,4,5,6,7,8-Octahydro- 2,3,8,8-tetramethyl-2-naphthalenyl) ethanone, 2-Hexyl-(E)-cinnamaldehyde, Hydroxycitronellal, Limonene)

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
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 Aspiration Environment - Long-term Hazard Category 1 H227, Combustible liquid.
H315, Causes skin irritation.
H317, May cause an allergic skin reaction.
H410, Very toxic to aquatic life with long lasting effects.

Signal Word: WARNING

Hazard Statements (s): H227, Combustible liquid.
H317, May cause an allergic skin reaction.
H319, Causes serious eye irritation.
H410, Very toxic to aquatic life with long lasting effects.

Precautionary Statements(s): P210, Keep away from heat, sparks, open flames and hot surfaces. - No smoking.
P264, Wash hands and other contacted skin thoroughly after handling.
P272, Contaminated work clothing should not be allowed out of the workplace.
P280, Wear protective gloves/eye protection/face protection.
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.
P362, Take off contaminated clothing and wash before reuse.
P370/378, In case of fire: Use carbon dioxide, dry chemical, foam for extinction.
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: Hydrocarbon Concentration %: 4.5500%

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures:

Name	CAS	%	GHS Classification
1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylcyclopenta-gamma-2-benzopyran	1222-05-5	20-<50%	Skin Irrit. 3-Aquatic Acute 1-Aquatic Chronic 1;H316-H410
Methyl dihydrojasmonate	24851-98-7	10-<20%	Aquatic Acute 3;H402
Benzyl benzoate	120-51-4	5-<10%	Acute Tox. 4-Acute Tox. 5-Aquatic Acute 1-Aquatic Chronic 2;H302-H313-H400-H411
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone	54464-57-2	5-<10%	Skin Irrit. 2-Skin Sens. 1B-Aquatic Acute 2-Aquatic Chronic 1;H315-H317-H401-H410
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
2-Isobutyl-4-methyltetrahydro-2H-pyran-4-ol	63500-71-0	1-<5%	Eye Irrit. 2A;H319
alpha,alpha-Dimethylphenethyl butyrate	10094-34-5	1-<5%	Aquatic Acute 2-Aquatic Chronic 2;H411
Linalyl acetate	115-95-7	1-<5%	Flam. Liq. 4-Skin Irrit. 2-Eye Irrit. 2A-Aquatic Acute 3;H227-H315-H319-H402
2-tert-Butylcyclohexyl acetate	88-41-5	1-<5%	Flam. Liq. 4-Acute Tox. 5-Skin Irrit. 3-Aquatic Acute 2-Aquatic Chronic 2;H227-H303-H316-H411
Hydroxycitronellal	107-75-5	1-<5%	Eye Irrit. 2A-Skin Sens. 1B-Aquatic Acute 3;H317-H319-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
gamma-Decalactone	706-14-9	1-<5%	Skin Irrit. 3;H316
alpha-Methylbenzyl acetate	93-92-5	1-<5%	Flam. Liq. 4-Aquatic Acute 3;H227-H402
Diethyl malonate	105-53-3	1-<5%	Flam. Liq. 4-Eye Irrit. 2A-Aquatic Acute 3;H227-H319-H402
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
Butylated hydroxytoluene	128-37-0	1-<5%	Aquatic Acute 1-Aquatic Chronic 1;H410
Ethyl maltol	4940-11-8	1-<5%	Acute Tox. 4;H302
beta-Pinene	127-91-3	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
Allyl heptanoate	142-19-8	0.1-<1%	Flam. Liq. 4-Acute Tox. 3-Acute Tox. 3-Acute Tox. 3-Skin Irrit. 3-Aquatic Acute 1-Aquatic Chronic 3;H227-H301-H311-H316-H331-H400-H412
4-Methoxy-alpha-methylbenzenepropanal	5462-06-6	0.1-<1%	Acute Tox. 5-Skin Sens. 1B-Aquatic Acute 3;H303-H317-H402
Ethyl methylphenylglycidate	77-83-8	0.1-<1%	Skin Sens. 1B-Aquatic Acute 2-Aquatic Chronic 2;H317-H411
Hexyl salicylate	6259-76-3	0.1-<1%	Skin Irrit. 2-Skin Sens. 1-Aquatic Acute 1-Aquatic Chronic 1;H315-H317-H410
Citronellol	106-22-9	0.1-<1%	Acute Tox. 5-Acute Tox. 5-Skin Irrit. 2-Eye Irrit. 2A-Skin Sens. 1B-Aquatic Acute 2;H303-H313-H315-H317-H319-H401
6,6-Dimethoxy-2,5,5-trimethylhex-2-ene	67674-46-8	0.1-<1%	Flam. Liq. 4-Skin Irrit. 2-Eye Irrit. 2A-Aquatic Acute 3-Aquatic Chronic 3;H227-H315-H319-H412
Allyl cyclohexanepropionate	2705-87-5	0.1-<1%	Acute Tox. 4-Acute Tox. 4-Acute Tox. 4-Skin Sens. 1-Aquatic Acute 1-Aquatic Chronic 1;H302-H312-H317-H332-H410

Citronellyl acetate	150-84-5	0.1-<1%	Skin Irrit. 2-Aquatic Acute 2-Aquatic Chronic 2;H315-H411
Coumarin	91-64-5	0.1-<1%	Acute Tox. 4-Skin Sens. 1B-Aquatic Acute 3;H302-H317-H402
2,4-Dimethyl-3-cyclohexen-1-carboxaldehyde	68039-49-6	0.1-<1%	Flam. Liq. 4-Acute Tox. 5-Skin Irrit. 2-Skin Sens. 1B-Aquatic Acute 2-Aquatic Chronic 2;H227-H303-H315-H317-H411
Allyl hexanoate	123-68-2	0.1-<1%	Flam. Liq. 4-Acute Tox. 3-Acute Tox. 3-Acute Tox. 3-Aquatic Acute 1-Aquatic Chronic 3;H227-H301-H311-H331-H400-H412
2-Ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	28219-61-6	0.1-<1%	Eye Irrit. 2A-Aquatic Acute 1-Aquatic Chronic 1;H319-H410
alpha-1-(2,6,6-Trimethyl-2-cyclohexen-1-yl)-2-buten-1-one	43052-87-5	0.1-<1%	Acute Tox. 4-Acute Tox. 5-Skin Sens. 1B-Aquatic Acute 2-Aquatic Chronic 2;H302-H313-H317-H411
alpha Pinene	80-56-8	0.1-<1%	Flam. Liq. 3-Acute Tox. 5-Skin Irrit. 2-Skin Sens. 1B-Asp. Tox 1-Aquatic Acute 1-Aquatic Chronic 1;H226-H303-H304-H315-H317-H410
cis-3-Hexenyl methyl carbonate	67633-96-9	0.1-<1%	Flam. Liq. 4-Skin Sens. 1-Aquatic Acute 2;H227-H317-H401
Citral	5392-40-5	0.1-<1%	Acute Tox. 5-Skin Irrit. 2-Eye Irrit. 2A-Skin Sens. 1B-Aquatic Acute 2;H313-H315-H317-H319-H401
Myrcene	123-35-3	0.1-<1%	Flam. Liq. 3-Skin Irrit. 2-Eye Irrit. 2A-Asp. Tox 1;H226-H304-H315-H319

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: 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: Rinse mouth with water and obtain medical attention. Immediately call a POISON CENTER or doctor/physician.

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.

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 Avoid inhalation.
Avoid contact with skin and eyes.

and emergency procedures:	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. 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.
Conditions for safe storage, including any incompatibilities:	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.
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: 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Faint Yellow, Pale Straw
Odour:	Red Fruits, Sugar, Floral
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:	0.9860 - 1.0000
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: >5000

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: Aspiration Hazard Category 1

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
2-tert-Butylcyclohexyl acetate	88-41-5	4600	Not available	Not available	Not available
Allyl heptanoate	142-19-8	218	810	3	Vapour
Allyl hexanoate	123-68-2	300	300	3	Vapour
Benzyl benzoate	120-51-4	1500	4000	Not available	Not available
Benzyl salicylate	118-58-1	2200	Not available	Not available	Not available
Ethyl maltol	4940-11-8	1200	Not available	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

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.
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14. TRANSPORT INFORMATION

UN Number:	UN3082
UN Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (alpha Cedrene, 1-(1,2,3,4,5,6,7,8-Octahydro2,3,8,8-tetramethyl-2-naphthalenyl)ethenone ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (alphaCedrene, 1-(1,2,3,4,5,6,7,8-Octahydro2,3,8,8-tetramethyl-2-naphthalenyl)ethanone) MARINE POLLUTANT ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (alphaCedrene, 1-(1,2,3,4,5,6,7,8-Octahydro2,3,8,8-tetramethyl-2-naphthalenyl)ethanone) MARINE POLLUTANT ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (alphaCedrene, 1-(1,2,3,4,5,6,7,8-Octahydro2,3,8,8-tetramethyl-2-naphthalenyl)ethanone) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (alphaCedrene, 1-(1,2,3,4,5,6,7,8-Octahydro2,3,8,8-tetramethyl-2-naphthalenyl)ethanone)
Transport Hazard Class(es):	9
Sub Risk:	-
Packing Group:	III
Environmental Hazards:	This is an environmentally hazardous substance.
Special Precautions for user:	None additional
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:	Not Applicable
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 A1=59.41% EH A2=5.61% EH A3=0.55630572% EH C1=45.25% EH C2=4.47% EH C3=0.44717055% EH C4=40.43% SCI 2=35.45% SCI 3=2.99% EDI 2A=46.87% SS 1=7.41% AH 1=76.38%

Total Fractional Values: EH A1=1.68 EH A2=17.83 EH A3=179.76 EH C1=2.21 EH C2=22.36 EH C3=223.63 EH C4=2.47 SCI 2=2.82 SCI 3=33.49 EDI 2A=2.13 SS 1=13.50 AH 1=1.31

Key to revisions: Concentration % Limits
Hazardous Ingredients declared
in a GHS Product Identifier
SECTION 3:
Composition/information on
ingredients
Total Fractional Values

Key to abbreviations:

Abbreviation	Meaning
Acute Tox. 3	Acute Toxicity - Oral Category 3
Acute Tox. 3	Acute Toxicity - Dermal Category 3
Acute Tox. 3	Acute Toxicity - Inhalation Category 3
Acute Tox. 4	Acute Toxicity - Oral Category 4
Acute Tox. 4	Acute Toxicity - Dermal Category 4
Acute Tox. 4	Acute Toxicity - Inhalation 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
Carc. 2	Carcinogenicity Category 2
Eye Irrit. 2A	Eye Damage / Irritation Category 2
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.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H303	May be harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
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.
H320	Causes eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H341	Suspected of causing genetic defects (exposure route).
H351	Suspected of causing cancer (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.
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.
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.
P311	Call a POISON CENTRE or doctor/physician.
P308/313	IF exposed or concerned: Get medical advice/attention.
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.
P501	Dispose of contents/container to ...
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.