

SAFETY DATA SHEET

According to Regulation (EC) No. 1272/2008 [CLP/GHS]

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identification: Lavender and Ylang Ylang

Company Identification: Pure Candle Supplies

17 Lacey St
Croydon, VIC 3136
AUSTRALIA

For Information

in Australia, call: (03) 9730 2213 Mon - Fri 9:00am - 5:00pm AEST
13 11 26 National Poisons Information Centre
Email: hello@purecandlesupplies.com.au

SECTION 2 – HAZARDS IDENTIFICATION

Hazard Classification:

Flammable Liquid Cat 4
Eye Irritation Cat 2A
Skin Irritation Cat 2
Skin Sensitisation Cat 1
Carcinogenicity Cat 2
Reproductive toxicity Cat 2
Aspiration Hazard Cat 1
Specific Target Organ Toxicity (Single Exposure) - Cat 2
Acute Aquatic Toxicity Cat 2
Chronic Aquatic Toxicity Cat 2

Label Elements

Signal Word:

DANGER



HAZARD STATEMENTS:

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.
H351 – Suspected of causing cancer.
H361 – Suspected of damaging fertility or the unborn child.
H371 – May cause damage to organs.
H401 – Toxic to aquatic life.
H411 – Toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS:

P301 + P310 – IF SWALLOWED: Immediately call a POISON CENTRE / doctor / physician.
P302 + P352 – IF ON SKIN: Wash with plenty of water and soap.
P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
P308 + P311 – IF exposed or concerned: Call a POISON CENTRE / doctor / physician.
P331 – Do NOT induce vomiting.
P333 + P313 – If skin irritation or rash occurs: Get medical advice / attention.
P337 + P313 – If eye irritation persists: Get medical advice / attention.
P362 + P364 – Take off contaminated clothing and wash it before reuse.
P370 + P378 – In case of fire: Use foam, carbon dioxide (CO₂), or dry powder.
P391 – Collect spillage.

Full text of listed statements: See section 16.

SECTION 3 – COMPOSITION AND INFORMATION ON INGREDIENTS

CAS #	Chemical Name	%	Classification
84-66-2	diethyl benzene-1,2-dicarboxylate	30-<60	H315, H317(1B), H319, H335, H401
8022-15-9	lavandula hybrida abrial oil	30-<60	H227, H304, H315, H317, H319, H335
8000-28-0	lavandula angustifolia	10-<30	H227, H304, H315, H317, H319, H402, H412
1222-05-5	1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	<10	H316, H400, H410
87-44-5	Caryophyllene	<10	H304, H317(B), H413
78-70-6	3,7-dimethyl octa-1,6-dien-3-ol	<1	H227, H303, H315, H317, H319, H402
104-93-8	4-methylanisole	<1	H302, H312, H315, H317, H319, H335
106-22-9	3,7-Dimethyl-6-octen-1-ol	<1	H315, H317, H319
105-87-3	3,7-dimethyl octa-2,6-dienyl acetate	<1	H315, H317, H319, H401, H412
93686-30-7	Cananga Odorata Flower Oil	<1	H227, H304, H316, H317, H319, H341, H351, H401, H412
464-45-9	(1S-endo)-1,7,7-trimethylbicyclo[2.2.]heptan-2-ol	<1	H228, H315, H317, H319, H402

SECTION 4 – FIRST AID MEASURES

Eye: Flush immediately with clean water for at least 15 minutes. Contact a physician if irritation persists.

Skin: Remove any contaminated clothing or shoes. Wash skin with soap and water. If irritation persists obtain medical advice.

Ingestion: Give plenty of water to drink. Seek medical attention if necessary.

Inhalation: Remove from the exposure to fresh air. Contact a physician as necessary.

SECTION 5 – FIRE FIGHTING MEASURES

Fire & Explosion Hazard:

In case of fire use foam, carbon dioxide (CO₂), or dry powder. Keep containers cool by spraying with water if exposed to fire.

Wear self-contained breathing apparatus and protective suit.

Dispose of fire debris and contaminated extinguishing water in accordance with local regulations.

Do not use full water jet.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spills & Leaks:

Eliminate all ignition sources. Ventilate area. Contain spill and recover free product. Do not discharge product into drains, surface water or ground water. Absorb remainder on vermiculite or other suitable non-flammable absorbent material.

Use of self-contained breathing apparatus is recommended for any major chemical spills.

Place material and absorbent into sealed containers and dispose of in accordance with current applicable laws and regulation.

SECTION 7 – HANDLING AND STORAGE

General Precautions:

Care should be taken to observe any precautions given on the container.

Handling:

Wash thoroughly after handling. Remove contaminated clothing and wash before re-use. Use only in a well ventilated area. Ground and bond containers when transferring material. Use spark-proof tools and explosion-proof equipment. Avoid contact with eyes, skin, and clothing – always wear safety goggles. Empty containers retain product residue (liquid and/or vapour), and can be hazardous. Do not re-use empty containers. Avoid contact with heat, sparks and flame. Do not pressurise, cut, weld, braze, solder, drill, grind, or expose containers to heat, sparks or open flame.

Storage:

Store in a tightly closed container. Keep away from heat, sparks, flame, and sources of light. Store in a cool, dry, well-ventilated area away from incompatible substances.

Other Precautions:

Good manufacturing practices dictate that an eyewash fountain and/or safety shower should be available in the work area. Smoking and naked flames should not be permitted in areas where product is handled.

SECTION 8 – EXPOSURE CONTROLS, PERSONAL PROTECTION**Exposure standards:**

For diethyl benzene-1,2-dicarboxylate: TWA 5mg/m³

For 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran: Diethyl Phthalate TWA 5mg/m³

For 2,6-bis(1,1-dimethylethyl)-4-methylphenol: 10mg/m³ TWA

For 4-methylphenol: p-Cresol TWA 5ppm, 22mg/m³

Engineering Controls: Not available.

Fire & Explosion Hazard: Keep away from heat and open flames.

Respiratory Protection: Use NIOSH approved respirator.

Ventilation Protection: Use adequate general or local exhaust ventilation.

Eye Protection: Use goggles or face shields.

Skin Protection: Wear appropriate protective gloves to prevent skin exposure.

Clothing Protection: Wear appropriate protective clothing to prevent skin exposure.

Other Information: Avoid inhalation and contact with skin and eyes. Good hygiene practices should be used.

Wash after any contact, before breaks and meals or using the toilet, and at the end of the work period. Contaminated clothing and shoes should be cleaned before re-use.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear liquid, Colourless to yellow.

Odour: Perfumistic.

pH: No data available.

Melting Point: No data available.

Boiling Point: No data available.

Flash Point: 79°C (closed cup)

Flammability (Solid, gas): No data available.

Upper/lower flammability or explosive limits: No data available.

Evaporation Rate: No data available.

Vapor pressure: No data available.

Vapor Density: No data available.

Specific Gravity: 0.987 – 1.017

Solubility: Insoluble in water.

Log Pow (m-Octanol/Water Partition Coefficient): No data available.

Auto Ignition Temp: No data available.

Decomposition temperature: No data available.

SECTION 10 – STABILITY AND REACTIVITY

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to avoid: Heating, pressurising, and impacting product.

Incompatibilities with other materials: Avoid contact or contamination with strong acids, alkalis, oxidising and reducing agents.

Hazardous Combustion or Decomposition Products: No hazardous decomposition products known.

Hazardous Reactions: Has not been reported.

SECTION 11 – TOXICOLOGICAL INFORMATION

Acute & Chronic health effects: Chronic, prolonged exposure to the product concentrate may result in irreversible effects.

Possible routes of exposure:

Ingestion: Accidental swallowing is unlikely in the industrial setting. Harmful if swallowed.

Skin/eye exposure: Contact with skin and eyes may result in irritation.

Inhalation: Where this material is used at elevated temperatures vapour may cause irritation to mucous membranes and respiratory tract, headache and nausea.

Range of effects following exposure: Not available

Dose concentration or conditions of exposure likely to cause injury: Not available

Delayed effects: Not available

Relevant negative data: None available

Toxicological Data:

For diethyl benzene-1,2-dicarboxylate:

LC 50 inhalation rat >4640/mg/m³/6hr

LD50 Oral rat >5000mg/kg

Dermal Rat LD50 >5000mg/kg

For lavandula hydrida abrial oil:

LD50 Dermal rabbit >5050mg/kg

LD50 Oral rat >5000mg/kg

For lavandula angustifolia:

LD50 Dermal rabbit 5000mg/kg

Oral Rabbit 3545mg/kg

LD50 Oral rat >5000mg/kg

For 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran:

LD50 Oral rat >3000mg/kg

Dermal Rat LD50 >6500mg/kg

LD50 Inhalation Rat >3000mg/kg

For Caryophyllene:

Oral mouse LD50 5000mg/kg

For 3,7-dimethyl octa-1,6-dien-3-ol:

LD50 Dermal rabbit 5610mg/kg

skin rabbit: Irritating

Inhalation mouse LC50 5mg/l/4hr

Oral mouse LD50 2200mg/kg

LD50 Oral rat 2790mg/kg

NOAEL Oral Rat 117mg/kg bw/d (28days)

NOAEL Dermal Rat 250mg/kg bw/d 90day

For 4-methylanisole:

LD50 Dermal rabbit >4850mg/kg

skin rabbit: Irritating

LC 50 inhalation rat >6.1/4hr mg/L

LD50 Oral rat 1920mg/kg

For 3,7-Dimethyl-6-octen-1-ol:

LD50 Dermal rabbit 2650mg/kg

Skin man: Irritation 48h

LD50 Oral rat 3450mg/kg

For 3,7-dimethyl octa-2,6-dienyl acetate:

LD50 Oral rat 6330mg/kg

For Cananga Odorata Flower Oil:

LD50 Dermal rabbit 4550mg/kg

LD50 Oral rat 4550mg/kg

For (1S-endo)-1,7,7-trimethylbicyclo[2.2.]heptan-2-ol:

Unspecified - Skin Irritation (ECHA): Irritating

LD50 Dermal rabbit >2000mg/kg

LD50 Oral rat 5800mg/kg

SECTION 12 – ECOLOGICAL INFORMATION

For diethyl benzene-1,2-dicarboxylate:

Ecotoxicity:

LC50 - *Oncorhynchus mykiss* (rainbow trout) - 12.00 mg/l - 96 h

LC50 (Sheepshead Minnow, 96hrs): 29 mg/L

LC50 (Fathead Minnow, 96hrs) : 17 mg/L

NOEC - *Lepomis macrochirus* (Bluegill) - 1.65 mg/l - 96 h

LC50 *Daphnia magna* (Water flea) – 90.0 mg/l - 48 h

EC50 *Desmodesmus subspicatus* (*Scenedesmus subspicatus*) - 23 mg/l - 72 h

Persistence and degradability:

Biodegradability: aerobic - Exposure time 28d, Result: > 94.6 % - Readily biodegradable.

Bioaccumulation: : The potential for bioaccumulation of Diethyl Phthalate is low. (based on log Pow <3) [ECHA RSD]

Bioconcentration factor (BCF): 117

Harmful to aquatic life. Water polluting substance.

Avoid contaminating waterways, drains or sewers. (Source: SDS)

For *lavandula hybrida* abrial oil:

Harmful to aquatic life with long lasting effects.

Do not allow to get into waste water or waterways. (Source: SDS)

For *lavandula angustifolia*:

Short-term toxicity to fish: LL50 (4 days) 29.173 mg/L

Short-term toxicity to aquatic invertebrates: EL50 (48 h) 21.995 mg/L

Toxicity to aquatic algae and cyanobacteria: EL50 (72 h) 13 - 24 mg/L

Toxicity to microorganisms: EC50 (3 h) 1.23 g/L

Biodegradation in water: Readily biodegradable

Adsorption/desorption: Koc at 20°C 158.21 - 3 722.64

Hazard for Predators Secondary poisoning 7.8 mg/kg food (Source: ECHA 16/04/2024)

For 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran:

Bioaccumulation potential: Low bioaccumulation potential

Half-life in soil: 35 days @ 12 °C

Bioaccumulation Factor (BCF) - L/kg ww: 1 584 L/kg ww

Adsorption/desorption: Koc at 20°C 14 300

Hazard for Predators - Secondary poisoning: 20.4 mg/kg food

Hazard for Terrestrial Organism – Soil: 1.5 mg/kg soil dw (Source: ECHA)

For Caryophyllene:

Biodegradation: >70%, 28 days

Other adverse effects: Do not allow the material to enter streams, sewers or other waterways. (Source: SDS)

For 3,7-dimethyl octa-1,6-dien-3-ol:

Toxicity to fish: flow-through test LC50 - *Cyprinus carpio* (Carp) - 11 mg/l - 96 h (OECD Test Guideline 203)

Toxicity to daphnia and other aquatic invertebrates: static test EC50 - *Daphnia magna* (Water flea) - 59 mg/l - 48 h (OECD Test Guideline 202)

Persistence and degradability:

Biodegradability aerobic - Exposure time 28 d Result: 70 - 80 % - Readily biodegradable. (OECD Test Guideline 301F)

Other adverse effects:

Discharge into the environment must be avoided (Source: SDS)

For 4-methylanisole:

LC50 *Leuciscus idus* (Golden orfe) 68.2 mg/l - 96 h

EC50 *Daphnia magna* (Water flea) 27 mg/l - 48 h

EC50 *Desmodesmus subspicatus* (*Scenedesmus subspicatus*) - > 500 mg/l - 72 h

Biodegradability aerobic - Exposure time 28 d Result: 30 - 40 % - Not readily biodegradable. (OECD Test Guideline 301F)

Other adverse effects: Harmful to aquatic life with long lasting effects.

For 3,7-Dimethyl-6-octen-1-ol:

LC50 *Leuciscus idus* (Golden orfe) – 14.66 mg/l - 96 h

EC50 *Daphnia* and other aquatic invertebrates - *Daphnia* - 17.48 mg/l - 48 h

EC50 Algae - *Scenedesmus quadricauda* (Green algae) - 2.4 mg/l - 72 h

Persistence and degradability:

Biodegradability aerobic - Exposure time 28 d Result: 80 - 90 % - Readily biodegradable. (OECD Test Guideline 301F)

Chemical Oxygen Demand (COD) 2,050 mg/g Remarks: (External MSDS)

Theoretical oxygen demand: 2,961 mg/g Remarks: (External MSDS)

Other adverse effects: Discharge into the environment must be avoided. (Source: SDS)

For 3,7-dimethyl octa-2,6-dienyl acetate:

EC50 Green algae (*Chlamydomonas variabilis*) 3.72 mg/l, 72 hours OECD Guideline 201 static.

EC50 *Daphnia magna* 14.1 mg/l, 48 hours Directive 84/449/EEC, C.2 static.

LC50 Fish (Cyprinus carpio) 68.12 mg/l, 96 hours OECD Guideline 203 static
EC10 Bacterium > 10000 mg/l, 0.5 hours DIN 38412 Part 27 (draft) aquatic.
Persistence and degradability:
Biological/Abiological degradation Test method: OECD Guideline 301F (aerobic), activated sludge, domestic
Method of analysis: BOD of the ThOD
Degree of elimination: >70% (28d)
Evaluation: Readily biodegradable (according to OECD criteria)
Hydrolysis Test method: OECD Guideline 111 (abiotic) pH7 Half-life: 1.539 h (25 °C)
Environmental mobility:
Transportation between environmental compartments: calculated adsorption/water-soil
KOC: 1151 log KOC: 3.06 (Source: SDS and ECHA)

For Cananga oil java:

Toxic to aquatic life with long lasting effects.

Avoid contaminating waterways.

Mobility in soil: Prevent contamination of soil, ground and surface water. (Source: SDS)

For (1S-endo)-1,7,7-trimethylbicyclo[2.2.1]heptan-2-ol:

LC50 Pimephales promelas (fathead minnow) 55.4 – 62.8 mg/l - 96h (Source: SDS)

General:

Ecotoxicity: No specific data available. Avoid release into environment.

Persistence and degradability: No specific data available. Avoid release into environment.

Bioaccumulation: No specific data available. Avoid release into environment.

Mobility in soil: No specific data available. Avoid release into environment.

SECTION 13 – DISPOSAL CONSIDERATIONS

Do not release into any sewers, on the ground, or into any body of water.

For unused & uncontaminated product, the preferred options include sending to a licensed incinerator or other thermal destruction device. Disposal should be in accordance with federal, state and local regulations.

SECTION 14 – TRANSPORT INFORMATION

UN No: None

UN Shipping Name: None

Class: None

Packing Group: None

Hazchem Code: None

SECTION 15 – REGULATORY INFORMATION

Regulation (EC) No 1907/2006 (REACH): All the ingredients of the mixture have been registered or are exempt from registration.
All ingredients listed on AICIS.

SECTION 16 – ADDITIONAL INFORMATION

HAZARD STATEMENTS:

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.

H351 – Suspected of causing cancer.

H361 – Suspected of damaging fertility or the unborn child.

H371 – May cause damage to organs.

H401 – Toxic to aquatic life.

H411 - Toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS:

P201 – Obtain special instructions before use.

P202 – Do not handle until all safety precautions have been read and understood.

P210 – Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.

P261 – Avoid Breathing dust/fume/gas/mist/vapours/spray.
P272 – Contaminated work clothing should not be allowed out of the workplace.
P260 – Do not breath dust/fume/gas/mist/vapours/spray.
P264 – Wash thoroughly after handling.
P270 – Do not eat, drink, or smoke when using this product.
P273 – Avoid release into the environment.
P280 – Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P301 + P310 – IF SWALLOWED: Immediately call a POISON CENTRE / doctor / physician.
P302 + P352 – IF ON SKIN: Wash with plenty of water and soap.
P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
P308 + P311 – IF exposed or concerned: Call a POISON CENTRE / doctor / physician.
P331 – Do NOT induce vomiting.
P333 + P313 – If skin irritation or rash occurs: Get medical advice / attention.
P337 + P313 – If eye irritation persists: Get medical advice / attention.
P362 + P364 – Take off contaminated clothing and wash it before reuse.
P370 + P378 – In case of fire: Use foam, carbon dioxide (CO₂), or dry powder.
P391 – Collect spillage.
P403 – Store in a well-ventilated place.
P405 – Store locked up.
P501 – Dispose of contents / container in accordance with local regulation.

Abbreviations and acronyms

AICIS: Australian Industrial Chemicals Introduction Scheme
CAS: Chemical Abstracts Services
GHS: Globally Harmonised System
LD50: Median Lethal Dose (50%)
LC50: Median Lethal Concentration (50%)
NIOSH: National Institute of Occupational Safety and Health
STEL: Short Term Exposure Limits
TWA: Time Weighted Average
UN: United Nations

Key literature references and sources for data

Prepared in accordance with current:

Work Health and Safety Regulations 2011
Australian Work Health and Safety Regulation 330
Globally Harmonised System of Classification and Labelling of Chemicals (GHS) (United Nations) Rev. 7

Sources of Data:

List of Designated Hazardous Substances
Safe Work Australia - Hazardous Chemical Information System (HCIS)
Australian Dangerous Goods Code
Australian Industrial Chemicals Introduction Scheme (AICIS)
Exposure Standards (Workplace Exposure Standards for Airborne Contaminants)

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