

SAFETY DATA SHEET

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

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identification: Seaside Christmas

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

Aspiration Hazard Cat 1

Specific Target Organ Toxicity (Single Exposure) - Cat 3 (including Respiratory tract irritation)

Specific Target Organ Toxicity (Repeated Exposure) - Cat 2

Respiratory Sensitisation Cat 1

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.

H334 – May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 – May cause respiratory irritation.

H373 – May cause damage to organs.

H401 – Toxic to aquatic life.

H410 – Very 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.

P304 + P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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.

P312 – Call a POISON CENTER / doctor / physician if you feel unwell.

P314 – Get medical advice / attention if you feel unwell.

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.

P342 + P311 – If experiencing respiratory symptoms: Call a POISON CENTRE / doctor / physician.

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	10-<30	H319, H335, H373
5989-27-5	(R)-p-mentha-1,8-diene	10-<30	H226, H302, H304, H312, H315, H317, H319, H332, H334(1), H400, H410
1222-05-5, 84-66-2	Galaxolide 50% in Diethyl Phthalate	<10	H316, H400, H410
54464-57-2	1-(1,2,3,4,5,6,7,8- octahydro-2,3,8,8- tetramethyl-2-naphthyl)ethan-1-one	<10	H315, H317, H334(1), H410
5392-40-5	3,7-dimethyl-2,6-octadienal	<10	H315, H317, H319
101-86-0	hexyl cinnamic aldehyde	<10	H317(1B), H400, H411
106-22-9	3.7-Dimethyl-6-octen-1-ol	<10	H315, H317, H319
8006-90-4	peppermint oil	<1	H227, H303, H315, H317, H319, H411
84775-75-7	artemisia vulgaris herb oil	<1	H226, H301, H304, H315, H317, H319, H371, H373, H411

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 (R)-p-mentha-1,8-diene: CEL TWA: 30ppm, 165.6mg/m³

For Galaxolide 50% in Diethyl Phthalate: Diethyl Phthalate TWA 5mg/m³

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

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: 75°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: 0.957 – 0.987

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

Repeated Dose LOAEL Rat Oral 150mg/Kg bw/dat

For (R)-p-mentha-1,8-diene:

LD50 Dermal rabbit >5000mg/kg

skin rabbit corrosion/irritation >5000mg/kg

LD50 Oral rat >5000mg/kg

For Galaxolide 50% in Diethyl Phthalate:

LD50 Oral rat >3000mg/kg

Dermal Rat LD50 >6500mg/kg

LD50 Inhalation Rat >3000mg/kg

For 1-(1,2,3,4,5,6,7,8- octahydro-2,3,8,8- tetramethyl-2- naphthyl)ethan-1-one:

Unspecified - Skin Irritation (ECHA): Irritating

LD50 Oral rat >5000mg/kg

Dermal Rat LD50 >5000mg/kg

For 3,7-dimethyl-2,6-octadienal:

LD50 Oral rat 6800mg/kg

Dermal Rat LD50 >2000mg/kg

For hexyl cinnamic aldehyde:

LD50 Oral rat 3100mg/kg

Skin rabbit: Moderate Irritation

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

LD50 Dermal rabbit 2650mg/kg

Skin man: Irritation 48h

LD50 Oral rat 3450mg/kg

For peppermint oil:

LD50 Dermal rabbit 5000mg/kg

Skin Human: Irritating

LD50 Oral rat 2650mg/kg

For artemisia vulgaris herb oil:

Skin Human 194mg/kg

LD50 Oral rat 194mg/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 (R)-p-mentha-1,8-diene:

Flow-through test LC50 – *Pimephales promelas* (fathead minnow) 0.72 mg/l - 96.0 h
Immobilization EC50 *Daphnia Magna* (Water flea) 0.36 mg/l - 48h
LC50 – *Eisenia foetida* Savigny (Earthworm) 6.0 ppm/48hr
Sludge treatment EC50 3.94mg/l (OECD Test Guideline 209)
Persistence and degradability: 71% - Readily biodegradable (OECD Test Guideline 301B).
Bio accumulative potential: Risk of bioaccumulation in an aquatic species is high.
May cause long term effects in the aquatic environment.
Other adverse effects: Very toxic to aquatic life with long lasting effects. (Source: SDS)

For Galaxolide 50% in Diethyl Phthalate:

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 1-(1,2,3,4,5,6,7,8- octahydro-2,3,8,8- tetramethyl-2- naphthyl)ethan-1-one:

Aquatic toxicity
Lepomis macrochirus, LC50 (96 h): 1.3 mg/L, Method: equivalent or similar to OECD Guideline 203 *Daphnia magna*, EC50 (48 h): 1.38 mg/L, Method: equivalent or similar to OECD Guideline 202
Aquatic Chronic toxicity:
30d-LOEC and 30d-LC50 for body weight and length were found to be 0.29 and >0.30 mg/l respectively, in a study conducted on *Danio rerio* (fish) according to international guidelines (OPPTS 85.1400 / OECD Guideline 210) under GLP.
30d-NOEC was the NOEC for body weight and length.
21d-NOEC for reproduction of OTNE to *Daphnia magna* : 0.028 mg/l, OECD TG 211 (OPPTS 850.1300) in compliance with GLP
Persistence and degradability
Not readily biodegradable: 0% (BOD) / 11% (analysed test material concentration) in 28 days (OECD TG 301C).
Biodegradation in soil: Half-life in soil: 6 d at 22 °C
The substance is photodegradable in air. The rate constant for the gas phase reaction of OH radicals was estimated at $9.85 \times 10^{-11} \text{ cm}^3 \text{ molecule}^{-1} \text{ s}^{-1}$. Assuming a daylight period of 12 h and $2.0 \times 10^6 \text{ OH cm}^{-3}$, the estimated atmospheric half-life is 1.4 hours. These data suggest that the atmospheric life time of substance is sufficiently short that it will not undergo long-range transport to any significant extent.
Bioaccumulative potential
Bioconcentration factor (BCF)
BCF: 391 (OECD TG 305, normalised to 5% fat)
Partition coefficient n-octanol/water (log PO/W)
Log Kow (Pow): 5.65 at 30 °C, method: OECD Guideline 117 (HPLC method) Based on the n-octanol/water partition coefficient accumulation in organisms is expected.
Mobility in soil
Log Koc: 4.12 (Source: SDS)

For 3,7-dimethyl-2,6-octadienal:

LC50 - *Leuciscus idus* (Golden orfe) - 6.78 mg/l – 96h (DIN 38412)
EC50 - *Daphnia magna* (Water flea) - 6.8 mg/l - 48h
EC50 - *Desmodesmus subspicatus* (*Scenedesmus subspicatus*) -103.8 mg/l - 72h
EC50 Bacteria - *Pseudomonas putida* - 2,100 mg/l - 30 min
Biodegradability aerobic - Exposure time 28 d Result: 85 - 95 % - Readily biodegradable (OECD Test Guideline 301C)
Other adverse effects:
Biological effects: When discharged properly, no impairments in the function of adapted biological wastewater treatment plants are to be expected.
Discharge into the environment must be avoided. (Source: SDS)

For hexyl cinnamic aldehyde:

Acute aquatic toxicity:
 $LE(C)_{50}: 0.1 < L(E)C50 \leq 1$
M factor (Acute): 1
Acute toxicity - fish LC₅₀, 96 hours: 1.7 mg/l, *Pimephales promelas* (Fat-head Minnow) (OECD 203.)
Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 0.247 mg/l, *Daphnia magna* (OECD 202.)
Acute toxicity - aquatic plants NOEC, 72 hours: 0.065 mg/l, *Desmodesmus subspicatus* (OECD 201.)
Acute toxicity - microorganisms NOEC, 28 days: 32 mg/kg, *Lumbriculus variegatus* (OECD 225.)
Aquatic invertebrates NOEC, 21 days: 0.069 mg/l, *Daphnia magna* (OECD 211.)
Worm EC50 659mg/l 28 days *Lumbriculus variegatus* (OECD Test 225)

Persistence and degradability: the substance is readily biodegradable.

Biodegradation Water - Degradation 97%: 28 days (OECD 301 F.)

Bioaccumulative potential: Bioconcentration factor has been estimated as 6300. This suggests bioaccumulation is significant.

Partition coefficient log Kow: 5.3

Mobility: The product is insoluble in water.

Adsorption/desorption coefficient Soil - Log Koc: 4.2 @ 25°C/77°F (OECD 121.) (Source: SDS)

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 peppermint oil:

Biodegradation in water: Readily biodegradable

Bioaccumulation Factor (BCF) - L/kg ww: 683 L/kg ww

Adsorption: Koc at 20°C 2 413

Toxic to aquatic life with long lasting effects. Avoid contaminating waterways. (ECHA 25/10/2023)

For artemisia vulgaris herb oil:

Elimination information (persistence and degradability)

Biodegradability : Readily biodegradable. (72 %, 28 d) (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.

H334 – May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 – May cause respiratory irritation.

H373 – May cause damage to organs.
H401 – Toxic to aquatic life.
H410 – Very toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS:

P210 – Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.
P260 – Do not breathe dust/fume/gas/mist/vapours/spray.
P261 – Avoid Breathing dust/fume/gas/mist/vapours/spray.
P264 – Wash thoroughly after handling.
P271 – Use only outdoors or in a well-ventilated area.
P272 – Contaminated work clothing should not be allowed out of the workplace.
P273 – Avoid release into the environment.
P280 – Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P284 – In case of inadequate ventilation, wear respiratory protection.
P301 + P310 – IF SWALLOWED: Immediately call a POISON CENTRE / doctor / physician.
P302 + P352 – IF ON SKIN: Wash with plenty of water and soap.
P304 + P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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.
P312 – Call a POISON CENTER / doctor / physician if you feel unwell.
P314 – Get medical advice / attention if you feel unwell.
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.
P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTRE / doctor / physician.
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 + P233 – Store in a well-ventilated place. Keep container tightly closed.
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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