

## SAFETY DATA SHEET

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

### SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Identification:** Orange & Cinnamon

**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 3

Eye Irritation Cat 2A

Skin Irritation Cat 2

Skin Sensitisation Cat 1

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

Respiratory Sensitisation Cat 1

Acute Aquatic Toxicity Cat 1

Chronic Aquatic Toxicity Cat 1

**Label Elements**

**Signal Word:**

DANGER



**HAZARD STATEMENTS:**

H226 – Flammable liquid and vapour.

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.

H400 – Very toxic to aquatic life.

H410 – Very toxic to aquatic life with long lasting effects.

**PRECAUTIONARY STATEMENTS:**

P302 + P352 – IF ON SKIN: Wash with plenty of water and soap.

P303 + P361 + P353 – IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

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.

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 (CO<sub>2</sub>), 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                              |
| 5989-27-5                | (R)-p-mentha-1,8-diene            | 30-<60 | H226, H302, H312, H315, H317, H319, H332, H334(1), H400, H410 |
| 104-55-2                 | 3-phenyl propen-2-al              | <10    | H303, H315, H317, H319, H401, H412                            |
| 8000-34-8                | syzygium aromaticum l. leaf oil   | <10    | H303, H304, H313, H315, H317, H319, H401                      |
| 147060-73-9 / 90480-35-6 | 3,7-dimethyl-2,6-octadienal       | <10    | H225, H315, H317, H412                                        |
| 97-54-1                  | 2-methoxy-4-prop-1-en-2-yl phenol | <1     | H302, H312, H315, H317, H319, H335                            |

### 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 (CO<sub>2</sub>), 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/m<sup>3</sup>

For (R)-p-mentha-1,8-diene: CEL TWA: 30ppm, 165.6mg/m<sup>3</sup>

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: 53°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: 0.966-0.996  
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/m<sup>3</sup>/6hr  
 LD50 Oral rat >5000mg/kg  
 Dermal Rat LD50 >5000mg/kg  
 For (R)-p-mentha-1,8-diene:  
 LD50 Dermal rabbit >5000mg/kg  
 skin rabbit corrosion/irritation >5000mg/kg  
 LD50 Oral rat >5000mg/kg  
 For 3-phenyl propen-2-al:  
 Oral Guinea Pig LD50 3400mg/kg  
 LD50 Dermal rabbit 1260mg/kg  
 Oral mouse LD50 2200mg/kg  
 LD50 Oral rat 2200mg/kg  
 For syzygium aromaticum l. leaf oil:  
 LD50 Dermal rabbit 2500mg/kg  
 LD50 Oral rat 2650mg/kg  
 For 3,7-dimethyl-2,6-octadienal  
 LD50 Dermal rabbit >5000mg/kg  
 LD50 Oral rat >5000mg/kg  
 For 2-methoxy-4-prop-1-en-2-yl phenol:  
 LD50 Dermal rabbit 1100mg/kg  
 Skin rabbit: Irritating  
 LD50 Oral rat 1560mg/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 Desmodemus 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 3-phenyl propen-2-al:  
 Biodegradation in water: Readily biodegradable  
 Biodegradation in water & sediment - simulation tests:  
 Half-life in freshwater: 15 days @ 25 °C  
 Half-life in freshwater sediment: 4.5 months @ 25 °C  
 Biodegradation in soil: Half-life in soil - 30 days @ 25 °C  
 Hazard for Predators: Secondary poisoning 333.333 ng/kg food  
 Long-term toxicity to fish: NOEC (28 days) 15.159 mg/L  
 Short-term toxicity to aquatic invertebrates: EC50 (48 h) 3.21 - 119.558 mg/L  
 Long-term toxicity to aquatic invertebrates: EC50 (21 days) 402 µg/L  
 Toxicity to aquatic algae and cyanobacteria: EC50 for freshwater algae 31.6 mg/L  
 Toxicity to microorganisms: EC50 for microorganisms 71 mg/L  
 Bioaccumulation potential: No bioaccumulation potential (ECHA 01/11/2023)

For Clove Oil Rectified 85%:

Ecotoxicity: Toxic to aquatic organisms, may cause long-term adverse effects environment.  
Avoid any pollution of ground, surface or underground water. (SDS)

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

Ecotoxicity: Harmful to aquatic life with long lasting effects.  
Persistence and degradability Biodegradability : Test Type: Closed Bottle test Result: Not readily biodegradable.  
Biodegradation: 42 % Exposure time: 28 d Method: OECD 301D GLP: yes (Source: SDS)

For 2-methoxy-4-prop-1-en-2-yl phenol:

Toxicity to daphnia and other aquatic invertebrates:

EC50 - Daphnia - 7.5 mg/l - 48 h

EC50 - Daphnia - 4.8 mg/l - 48 h

Remarks: (calculated)

Persistence and degradability: Biodegradability Biochemical oxygen demand - Exposure time 28 d  
Result: 79 % - Readily biodegradable. (OECD Test Guideline 301F) (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: 1266  
UN Shipping Name: Perfumery Product with Flammable Solvent  
Class: 3  
Packing Group: III  
Hazchem Code: 3[Y]

### 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

#### Entire text of the H and P phrases mentioned in section 2 & 3

##### HAZARD STATEMENTS:

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H400 – Very 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.

P233 – Keep container tightly closed.

P240 – Ground and bond container and receiving equipment.

P241 – Use explosion-proof equipment.

P242 – Use non-sparking tools.

P243 – Take action to prevent static discharges.

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.  
P302 + P352 – IF ON SKIN: Wash with plenty of water and soap.  
P303 + P361 + P353 – IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
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.  
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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 (CO<sub>2</sub>), or dry powder.  
P391 – Collect spillage.  
P403 +P235 – Store in a well-ventilated place. Keep cool.  
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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