

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

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identification: Meadow Dew
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:

Eye Irritation Cat 2A
Skin Irritation Cat 2
Skin Sensitisation Cat 1
Reproductive toxicity Cat 2
Acute Aquatic Toxicity Cat 2
Chronic Aquatic Toxicity Cat 2

Label Elements

Signal Word:
WARNING



HAZARD STATEMENTS:

H315 – Causes skin irritation.
H317 – May cause an allergic skin reaction.
H319 – Causes serious eye irritation.
H361 – Suspected of damaging fertility or the unborn child.
H401 – Toxic to aquatic life.
H411 – Toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS:

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 + P313 – IF exposed or concerned: Get medical advice / attention.
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.
P391 – Collect spillage.

Full text of listed statements: See section 16.

SECTION 3 – COMPOSITION AND INFORMATION ON INGREDIENTS

CAS #	Chemical Name	%	Classification
1222-05-5	1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	10-<30	H316, H400, H410
101-86-0	hexyl cinnamic aldehyde	<10	H317(1B), H400, H411
80-54-6	p-tert-butyl-alpha-methyl dihydrocinnamic aldehyde	<10	H227, H302, H315, H317, H361, H401, H411

78-70-6	3,7-dimethyl octa-1,6-dien-3-ol	<10	H227, H303, H315, H317, H319, H402
106-22-9	3.7-Dimethyl-6-octen-1-ol	<10	H315, H317, H319
32210-23-4	4-tert-butyl cyclohexyl acetate	<10	H317(1B), H401, H411
97-53-0	4-allyl-2-methoxy phenol	<1	H302, H315, H317, H319, H401, H411
8022-15-9	lavandula hydrida abrial oil	<1	H227, H304, H315, H317, H319, H335
90063-52-8, 8008-26-2	citrus aurantifolia extract	<1	H226, H302, H304, H312, H315, H317, H319, H332, H410

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

For citrus aurantifolia extract: Pinene alpha TWA 20ppm, Pinene beta TWA 20ppm, Carvene TWA 30ppm (165.5mg/m³)

For diethyl benzene-1,2-dicarboxylate: TWA 5mg/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:	>100°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:	0.979-1.009
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 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 hexyl cinnamic aldehyde:
 LD50 Oral rat 3100mg/kg
 Skin rabbit: Moderate Irritation

For p-tert-butyl-alpha-methyl dihydrocinnamic aldehyde:
 LD50 Dermal rabbit >2000/kg
 LD50 Oral rat 1390mg/kg
 skin rabbit: Irritating
 Dermal Rat LD50 >2000mg/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 3,7-Dimethyl-6-octen-1-ol:
 LD50 Dermal rabbit 2650mg/kg
 Skin man: Irritation 48h
 LD50 Oral rat 3450mg/kg

For 4-tert-butyl cyclohexyl acetate:
 LD50 Dermal rabbit >4680mg/kg
 LD50 Oral rat 3770mg/kg

For 4-allyl-2-methoxy phenol:
 LD50 Oral rat >2000mg/kg
 LC 50 inhalation rat 2.6mg/L

For lavandula hybrida abrial oil:
 LD50 Dermal rabbit >5050mg/kg
 LD50 Oral rat >5000mg/kg

For citrus aurantifolia extract:
 Oral Rabbit >5000mg/kg
 LD50 Dermal rabbit >5000mg/kg
 LD50 Oral rat >5000mg/kg

SECTION 12 – ECOLOGICAL INFORMATION

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 hexyl cinnamic aldehyde:
 Acute aquatic toxicity:
 LE(C)₅₀: 0.1 < L(E)C₅₀ ≤ 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 p-tert-butyl-alpha-methyl dihydrocinnamic aldehyde:

Algae Growth Inhibition Test - EC50 32.5mg/l – 72h (growth rate), OECD 201.
Acute immobilisation Test - Daphnia sp EC50 9.84mg/l, OECD 202
Activated sludge micro-organism - Activated sludge Acute EC50 104mg/l – 3h, OECD 209.
Respiration inhibition Test - Fish Acute Toxicity Test Acute LC50 2.04mg/l – 96h, OECD 203.
Activated Sludge respiration inhibition test NOEC 0.03mg/l – 3h, OECD 209
Biodegradability CO2 Evolution Test – 80.7% Readily – 28 days, Readily biodegradable.
Bioaccumulative potential: Low
Mobility in soil:
Soil/water partition coefficient (K_{oc}) – 1281
Other adverse effects:
Toxic to aquatic life with long lasting effects.
Do not allow to get into waste water or 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 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 4-tert-butyl cyclohexyl acetate:

Ecotoxicity effects
Toxicity to fish: LC50(96 h,) = 8.6 mg/l
EC50 Daphnia magna (Water flea) = 5.3 mg/l – 48h (OECD Test Guideline 202)
Toxicity to algae: ErC50 = 17 mg/l – 72h
Biodegradability: 75%, Readily biodegradable. (Source: SDS)

For 4-allyl-2-methoxy phenol:

Toxicity:
Bird LD50 > 316 mg/kg Schafer, 1983
Crustacea EC50 Daphnia magna 1.13 mg/l, 48 hours
Invertebrates LD50 (Invertebrates) 0.012 mg/kg Lee, 1997
Fish LC50 *Danio rerio* 13 mg/l, 96 hours
Oncorhynchus mykiss 60.8 mg/l, 96 hours
Persistence and degradability: Readily Biodegradable
Bioaccumulative potential: Partition coefficient n-octanol / water (log Kow): 2.27
Other adverse effects: Toxic to aquatic life.

For lavandula hydrida abrial oil:

Harmful to aquatic life with long lasting effects.
Do not allow to get into waste water or waterways. (Source: SDS)

For citrus aurantifolia extract:

Ecotoxicity Very toxic to aquatic life with long lasting effects.

CAMPHERE (CAS 79-92-5):

Algae: EC50 > Green algae (*Desmodesmus subspicatus*) 1000 mg/l, 72 hours Method: OECD - Test Guideline 201
Crustacea: EC50 Daphnia magna 0.72 mg/l, 48 hours Method: OECD Test Guideline 202
Fish: LC50 *Danio rerio* 0.72 mg/l, 96 hours Method: OECD Test Guideline 203
Other: EC50 > 1000 mg/l, 3 hours Method: OECD Test Guideline 209

TERPINOLENE (CAS 586-62-9):

Crustacea: LC50 Daphnia magna 2.55 mg/l, 48 h
Fish: LC50 *Pimephales promelas* 0.72 mg/l, 96 h

PINENE ALPHA (CAS 80-56-8):

Crustacea: LC50 Daphnia magna 41 mg/l, 48 hours
Fish: LC50 Fathead minnow (Pimephales promelas) 0.28 mg/l, 96 hours
CYMENE PARA (CAS 99-87-6)
Other: EC50 Pseudokirchnerella subcapitata 5.8 mg/l, 72 hours
Crustacea: LC50 Water flea (Daphnia magna) 4.3 - 10 mg/l, 48 hours
Fish: LC50: Fish 2 mg/l, 96 hours (Oryzias latipes)
LC50: Sheepshead minnow (Cyprinodon variegatus) 36 - 64 mg/l, 96 hours
NOEC Sheepshead minnow (Cyprinodon variegatus) 10 mg/l, 96 hours
CARVENE (CAS 5989-27-5):
Crustacea: EC50 Water flea (Daphnia pulex) 69.6 mg/l, 48 hours
Fish: LC50 Fathead minnow (Pimephales promelas) 0.619 - 0.796 mg/l, 96 hours
LC50 Rainbow: trout, donaldson trout (Oncorhynchus mykiss) 35 mg/l, 4 days
Other: EC50 Activated Sludge 3.94 mg/l
* Estimates for product may be based on additional component data not shown.
Bioaccumulative potential No data available.
Partition coefficient n-octanol / water (log Kow):
TERPINEOL ALPHA 2.98
TERPINOLENE 4.23
PINENE ALPHA 4.83
MYRCENE 4.17
CYMENE PARA 4.1
CARVENE 4.232 (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

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

HAZARD STATEMENTS:

H315 – Causes skin irritation.
H317 – May cause an allergic skin reaction.
H319 – Causes serious eye irritation.
H361 – Suspected of damaging fertility or the unborn child.
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.

P261 – Avoid Breathing dust/fume/gas/mist/vapours/spray.
P264 – Wash thoroughly after handling.
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.
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 + P313 – IF exposed or concerned: Get medical advice / attention.
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.
P391 – Collect spillage.
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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