

SAFETY DATA SHEET

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identification: Luxe Diffuser Base

Company Identification: Pure Candle Supplies
17 Lacey Street
Croydon VIC 3136

**For Information
in Australia, call:** National Poisons Centre 13 11 26 (24/7 Hotline)

SECTION 2 – HAZARDS IDENTIFICATION

Hazard Classification:
Flammable Liquid Cat 4
Eye Irritation Cat 2

Hazard Symbols: Xi

Risk Phrases: R36 Irritating to eyes

Safety Phrases: S16 Keep away from sources of ignition – no smoking
S25 Avoid contact with eyes
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S36/37/39 Wear suitable protective clothing/gloves and eye/face protection

Full text of listed statements: See section 16.

Label Elements

Signal Word:
WARNING



HAZARD STATEMENTS:
H227 – Combustible liquid.
H319 – Causes serious eye irritation.

PRECAUTIONARY STATEMENTS:
P370 + P378 – In case of fire: Use fine water spray, foam, carbon dioxide (CO₂), or dry powder.
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.
P337 + P313 – If eye irritation persists: Get medical advice/attention.

SECTION 3 – COMPOSITION AND INFORMATION ON INGREDIENTS

CAS #	Chemical Name	%	Classification
100-79-8	2,2-dimethyl-1,3-dioxolan-4-ylmethanol	> 60	H227, H319

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 fine water spray, 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:	STEL: Not available.	TWA: Not available.
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.
Odour:	Faint.
pH:	No data available.
Melting Point:	No data available.
Boiling Point:	No data available.
Flash Point:	91°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:	1.05 – 1.08

Solubility: Soluble 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:
2,2-dimethyl-1,3-dioxolan-4-ylmethanol:
LD50 Oral rat 7000 mg/kg
LD50 Dermal rat 2000 mg/kg

SECTION 12 – ECOLOGICAL INFORMATION

2,2-dimethyl-1,3-dioxolan-4-ylmethanol:
LC50 - 96 h : 16.7 g/l - Pimephales promelas (fathead minnow) flow-through test
Analytical monitoring: yes
Method: according to a standardised method
Published data
Not harmful to fish (LC/LL50 > 100 mg/L)
EC50 - 48 h : > 96 mg/l - Daphnia similis (water flea)
static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
Not harmful to aquatic invertebrates. (EC/EL50 > 100 mg/L)
Unpublished internal reports
ErC50 - 72 h : > 92 mg/l - Pseudokirchneriella subcapitata (green algae)
static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
Not harmful to algae (EC/EL50 > 100 mg/L)
Unpublished internal reports
Chronic toxicity to daphnia and other aquatic invertebrates:
2,2-dimethyl-1,3-dioxolan-4-ylmethanol semi-static test
NOEC: 10 mg/l - 21 Days - Daphnia magna (Water flea)
flow-through test
Analytical monitoring: yes
End point: Reproduction
Method: OECD Test Guideline 211
No adverse chronic effect observed up to and including the threshold of 1 mg/L.

2,2-dimethyl-1,3-dioxolan-4-ylmethanol:
Ready biodegradability study

Method: OECD Test Guideline 301 D

4 % - 28 Days

The substance does not fulfill the criteria for ready biodegradability and ultimate aerobic biodegradability

Theoretical oxygen demand

Inoculum: activated sludge

Unpublished internal reports

Inherent biodegradability study

Method: OECD Test Guideline 302 B

25 % - 28 Days

The substance fulfills the criteria for inherent primary biodegradability

Dissolved organic carbon (DOC)

Inoculum: activated sludge

Conc. in standard unit mg/l: 10 mg/l

Unpublished internal reports

Results of PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

This substance is not considered to be very persistent and very bioaccumulating (vPvB).

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

Product Disposal:

- Do not dispose of with domestic refuse.
- Dispose of in accordance with federal, state and local regulations.
- The product should not be allowed to enter drains, sewers, water courses or the soil.
- Dispose of contents/ container to an approved waste disposal plant.
- Send to a licensed waste management company.

Advice on cleaning and disposal of packaging:

- Do not re-use empty containers.
- Clean container with water.
- Dispose of contents/ container to an approved incineration plant.
- Dispose of in accordance with local regulations.

SECTION 14 – TRANSPORT INFORMATION

UN No:	Not relevant
UN Shipping Name:	Not relevant
Class:	Not relevant
Packing Group:	Not relevant
Hazchem Code:	Not relevant

SECTION 15 – REGULATORY INFORMATION

All ingredients listed on AICS.

SECTION 16 – ADDITIONAL INFORMATION

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

HAZARD STATEMENTS:

H227 – Combustible liquid.

H319 – Causes serious eye irritation.

PRECAUTIONARY STATEMENTS:

P210 – Keep away from flames and hot surfaces. – No smoking.

P264 – Wash thoroughly after handling.

P280 – Wear protective gloves/eye protection/face protection.

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.

P337 + P313 – If eye irritation persists: Get medical advice/attention.

P370 + P378 – In case of fire: Use fine water spray, foam, carbon dioxide (CO₂), or dry powder.

P403 + P235 – Store in a well-ventilated place. Keep cool.

Abbreviations and acronyms

AICS: Australian Inventory of Chemical Substances

CAS: Chemical Abstracts Services

GHS: Globally Harmonised System

LD50: Median Lethal Dose (50%)

LC50: Median Lethal Concentration (50%)

NICNAS: National Industrial Chemicals Notification and Assessment Scheme

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:

Work Health and Safety Regulations 2011

Globally Harmonised System of Classification and Labelling of Chemicals (GHS) (United Nations)

Sources of Data:

List of Designated Hazardous Substances

Approved Criteria for Classifying Hazardous Substances

Safe Work Australia - Hazardous Chemical Information System (HCIS)

Australian Dangerous Goods Code

Australian Inventory of Chemical Substances (AICS) (NICNAS)

Exposure Standards (Workplace Exposure Standards for Airborne Contaminants)

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