

SAFETY DATA SHEET

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

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identification: Hot Cross Bun

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

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

Carcinogenicity Cat 1A

Mutagenicity Cat 2

Acute Toxicity (Dermal) – Cat 3

Acute Aquatic Toxicity Cat 2

Chronic Aquatic Toxicity Cat 3

Label Elements

Signal Word:

DANGER



HAZARD STATEMENTS:

H311 – Toxic in contact with skin.

H315 – Causes skin irritation.

H317 – May cause an allergic skin reaction.

H319 – Causes serious eye irritation.

H335 – May cause respiratory irritation.

H341 – Suspected of causing genetic defects.

H350 – May cause cancer

H401 – Toxic to aquatic life.

H412 – Harmful to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS:

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.

P308 + P313 – IF exposed or concerned: Get medical advice / attention.

P312 – Call a POISON CENTRE / 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.

P361 + P364 – Take off immediately all contaminated clothing and wash it before reuse.

P362 + P364 – Take off contaminated clothing and wash it before reuse.

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	>60	H315, H317(1B), H319, H335, H401
104-55-2	3-phenyl propen-2-al	10-<30	H303, H315, H317, H319, H401, H412
122-40-7	2-benzylidene heptanal	<10	H317, H401, H411
97-53-0	4-allyl-2-methoxy phenol	<10	H302, H315, H317, H319, H401, H411
91-64-5	1,2-benzopyrone	<10	H302, H317, H402, H412
8008-45-5 / 84082-68-8	myristica fragrans houtt. fruit oil	<10	H226, H304, H315, H317, H341, H350(1B), H411
8015-91-6	cinnamomum zeylanicum blume bark oil	<1	H227, H303, H311, H315, H317, H319, H350(1A), H401, 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 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:

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

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

For propane-1,2-diol: AU OEL 474mg/m³, 150ppm, 10mg/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: 1.070-1.100
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 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 2-benzylidene heptanal:

LD50 Dermal rabbit >2000mg/kg

LC 50 inhalation rat >2.12mg/L 4h

LD50 Oral rat 3730mg/kg

For 4-allyl-2-methoxy phenol:

LD50 Oral rat >2000mg/kg

LC 50 inhalation rat 2.6mg/L

For 1,2-benzopyrone:

subcutaneous mouse 242mg/kg

Oral mouse LD50 196mg/kg

LD50 Oral rat 300mg/kg

Dermal Rat LD50 293mg/kg

For myristica fragrans houtt. fruit oil:

LD50 Dermal rabbit >5000mg/kg

LD50 Oral rat 2620mg/kg

For cinnamomum zeylanicum blume bark oil:

Unspecified - Oral: LD50 3800mg/kg

Unspecified - Dermal: LD50 700mg/kg

LD50 Dermal rabbit: 0.59ml/kg

Intravenous mouse LD50 75mg/kg

LD50 Oral rat 2200mg/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 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 2-benzylidene heptanal:

LC50 – *Danio rerio* (zebra fish) 3 mg/l 96hr (OECD 203)

LC50 Invertebrates 1.1mg/L – 48hr

Algae: EC50 - Algae - 1.89 mg/l - 72 h

Biodegradation: Readily biodegradable (OECD 301B)

Bioaccumulative Potential: Low Kow 4.7

Other adverse effects: Toxic to aquatic life with long lasting effects. (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 1,2-benzopyrone:

LC50 Fish 2.94 mg/l - 96h

EC50 *Daphnia magna* – 24.3- <36.9 mg/l - 48h

EC50 Algae 1.45mg/l - 72h

Persistence and degradability:

Readily degradation (GLP testing report)

Bioaccumulative potential:

No bioaccumulative potential due to low Kow (Logkow=1.39).

Mobility in soil: Not likely due to low Kow (Logkow=1.39).

Results of PBT&vPvB assessment: The substance is not considered a PBT/vPvB.

Bioconcentration factor (BCF) <10 *Leuciscus idus* (Golden orfe) 3 days

Other adverse effects: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic Environment (Source: SDS)

For *myristica fragrans* houtt. fruit oil:

Toxicity:

Aquatic invertebrates: EC50 (48 h) 590 µg/L

Aquatic algae and cyanobacteria: EL50 (48 h) 5.3 - 15 mg/L

Persistence and degradability: Biodegradation is expected

Bio-accumulative potential: Bioaccumulation is unlikely

Very toxic to aquatic life with long lasting effects. (Source: SDS and ECHA data unknown)

For *cinnamomum zeylanicum* blume bark oil:

Biodegradation in water: Readily biodegradable

Short-term toxicity to aquatic invertebrates: EC50 (48 h) 1.61 mg/L

Toxicity to aquatic algae and cyanobacteria: EC50 (4 days) 1.68 mg/L (Source: ECHA 09/02/2024)

Toxic to aquatic life with long lasting effects.

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

H311 – Toxic in contact with skin.
H315 – Causes skin irritation.
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H319 – Causes serious eye irritation.
H335 – May cause respiratory irritation.
H341 – Suspected of causing genetic defects.
H350 – May cause cancer
H401 – Toxic to aquatic life.
H412 – Harmful 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. P405 – Store locked up.
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.
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.
P308 + P313 – IF exposed or concerned: Get medical advice / attention.
P312 – Call a POISON CENTRE / 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.
P361 + P364 – Take off immediately all contaminated clothing and wash it before reuse.
P362 + P364 – Take off contaminated clothing and wash it before reuse.
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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