

GHS: According to 2015/830/EU

Code Number: E0100484

Version 2 Revised 30/04/2020

Section 1. I dentification of the substance/mixture and of the company/undertaking

1.1 Product Identifier

Product Name LEMON ESSENTIAL OIL - CITRAL 3-4% ABP

Code Number E0100484 - ESLEMCIT4

Alternative Name

REACH Reg No Not registered

1.2 Relevant identified uses of the substance or mixture and uses advised against Concentrated material for manufacturing purposes only

1.3 Details of the supplier of the safety data sheet

Pure Ingredients Ltd

626A Rosebank Road, Avondale

Auckland 1026 New Zealand

Telephone Number +09 813 5619

Email Address compliance@pureingredients.co.nz

**1.4 Emergency Tel No** 111 / NZ Poisons Centre **0800 POISON** (0800 764 766)

Emergency Response: 0800 CHEMCALL / 0800 243 622 (24hr)

#### Section 2. Hazard Identification

2.1 Classification of the substance or mixture

FL 3\*(3.1C) Flammable liquid, category 3
AH 1\*(6.1E) Aspiration hazard, category 1

SCI 2\*(6.3A) Skin corrosion/irritation, category 2

SS 1\*(6.5B) Skin sensitisation, category 1

EDI 2A\*(6.4A) Eye damage/irritation, category 2A
EH A1\*(9.1A) Aquatic hazard, acute, category 1
EH C1\*(9.1A) Aquatic hazard, chronic, category 1

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#### 2.2 Label elements

GHS classification according to Regulation (EC) No 1272/2008

Hazard Pictograms



Signal Word Danger

Hazard Statements

H226 Flammable liquid and vapour

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

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 ignnition sources. No smoking.

P261 Avoid breathing fumes.

P264 Wash hands thoroughly after handling

P273 Avoid release to the environment.

P280 Wear protective gloves and eye protection

P301+P310 IF SWALLOWED: Immediately call a POISON CENTRE.

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

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue

rinsing.

P331 Do NOT induce vomiting.

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P333+P313 If skin irritation or rash occurs: Get medical advice.

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

P501 Dispose of contents and container in accordance with local

regulation.

### 2.3 Other Hazards

Contains nothing known from the allergens list which may produce an allergic reaction

No further information available at this time

## Section 3. Composition / information on ingredients

Any percentage values listed here for hazardous components are for illustrative purposes only

### 3.2 Mixtures

Complex mixture of ingredients

## Hazardous components

ID Numbers	Chemical Name, Classification and Hazards	Conc (%)
CAS 5989-27-5 EINECS 227-813-5 REACH	d-Limonene (p-Mentha-1,8-diene)  FL 3;SCI 2;SS 1B;AH 1;EH A1,C1 H226,H304,H315,H317,H400,H410	>60%
CAS 80-56-8 EINECS 201-291-9 REACH	Pinenes  FL 3;ATO 4;AH 1;SCI 2;EH A1,C1 H226,H302,H304,H315,H400,H410	<10%
CAS 99-85-4 EINECS 202-794-6 REACH	gamma-Terpinene (p-Mentha-1,4-diene) FL 3;ATO 5(3850);SCI 3;AH 1 H226,H303,H304,H316	<10%
CAS 5392-40-5 EINECS 226-394-6 REACH	Citral SCI 2;SS 1 H315,H317	<10%
CAS 123-35-3 EINECS 204-622-5 REACH	beta-Myrcene  FL 3; AH 1; SCI 2; EDI 2A H226, H304, H315, H319	<10%
CAS 106-23-0 EINECS 203-376-6 REACH	Citronellal  FL 4;ATO 5(2500);SCI 2;EDI 2A;SS 1;EH A2 H227,H303,H315,H317,H319,H401	<10%

Refer to section 16 for the wording of listed classification and hazard statement codes

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#### Section 4. First Aid measures

Take phrases in sections 2 into account

4.1 Description of first aid measures

#### After inhalation

Remove from the exposure area to fresh air, lay patient on back until breathing returns to normal. Contact a doctor if necessary.

#### After skin contact

Remove contaminated clothing. Wash thoroughly with soap and water. Seek medical advice if irritation persists or there is any sign of tissue damage.

#### After eye contact

Flush with plenty of water for 15 minutes including under eyelid and seek medical advice if necessary.

### After ingestion

Do NOT induce vomiting. Position to avoid aspiration should vomiting occur. Wash mouth with plenty of water and obtain medical advice immediately.

- 4.2 Most important symptoms and effects, both acute and delayed Take phrases in sections 2 and 11 into account. No further information available at this time.
- 4.3 Indication of immediate medical attention and special treatment needed Treat symptomatically.

## Section 5. Fire-fighting measures

5.1 Extinguishing Media

Carbon dioxide, foam or dry powder. DO NOT USE A DIRECT WATER JET.

- 5.2 Special hazards arising from the substance or mixture May produce Carbon dioxide and unidentified organic compounds.
- 5.3 Advice for fire-fighters

Wear Self-Contained Breathing Apparatus (S.C.B.A.) and full protective clothing to minimise skin exposure. Avoid inhalation of vapours. Keep containers cool with water spray. Do not use direct water jet on burning material. Do not allow spillage of fire to enter drains or watercourses.

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#### Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Remove all sources of ignition. Avoid inhalation, skin and eye contact. Ensure proper ventilation. Evacuate all unnecessary personnel. If possible contain the spill.

### 6.2 Environmental precautions

Do not discharge directly into drains or the soil. Keep away from surface and ground water

6.3 Methods and material for containment and cleaning up

Soak up spillage with sand or other inert absorbant material such as earth or vemiculite; transfer used material to a suitable waste container and dispose in accordance with regulations. If large quantities of this material enter the waterways, contact the EPA or your local Waste Management Group.

6.4 Reference to other sections

Refer to information in Sections 7, 8 and 13

### Section 7. Handling and storage

## 7.1 Precautions for safe handling

Maintain good occupational and personal hygiene. Avoid inhalation and contact with skin and eyes. Wear protective clothing and use safety glasses. Keep in original container or an alternative made from a compatiable material.

7.2 Conditions for safe storage, including any incompatibilities

Store in tightly sealed original containers away from ignition sources and in a cool place. Avoid contact with incompatible materials that support combustion, such as strong oxidising agents.

7.3 Specific end use(s)

No further information available

## Section 8. Exposure controls / personal protection

#### 8.1 Control Parameters

No exposure standards have been established for this material by Work safe Australia. However as a matter of course avoid repeated or prolonged contact with the skin. Keep out of eyes. Do not ingest. Use with good ventilation, do not breathe vapour. Sensitive individuals may develop an allergic response.

### 8.2 Exposure controls

Engineering controls

Natural ventilation should be sufficient, however where vapours of mists are generated the use of a grounded mechanical exhaust ventilation system is recommended.

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Individual protection measures

Refer to Section 5 for specific fire/chemical personal protective equipment advice. Always wash routinely before breaks, meals and at the end of the work period.

Eye/face protection

Use splash-proof safety glasses and face shield where splashing is possible.

Hand protection

Wear chemically resistant disposable gloves.

Other skin protection

Wear overalls. Depending on conditions in the workplace, additional body protection should be considered. Always wash routinely before breaks, meals and at the end of the work period.

Respiratory protection

Not generally required. Use inhalation protection in poorly ventilated areas

Thermal hazards

No information

Environmental exposure controls

Emissions from ventilation and process equipment should be checked to ensure compliance with environmental protection legislation.

National Exposure Standards

No exposure standards have been established for this material by Worksafe Australia.

**Biological Limit Values** 

No biological limit allocated.

## Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

FLASH POINT (°C) 46

APPEARANCE Mobile liquid

COLOUR Yellow to greenish-yellow

ODOUR Very light, fresh, citrus, reminiscent of lemon peel

ODOUR THRESHOLD

Not available

PH @20 DEG C

MELTING/FREEZING POINT

Not available

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INITIAL BOILING POINT AND

**RANGE** 

Not available

**EVAPORATION RATE** 

Not available

FLAMMABILITY (SOLID/GAS)

Not available

UPPER/LOWER FLAMMABILITY

LIMITS

Not available

VAPOUR PRESSURE

Not available

VAPOUR DENSITY

Not available

SPECIFIC GRAVITY @ 20 deg C

0.843 to 0.859

**SOLUBILITIES** 

Insoluble in water

PARTITION COEFF

N-OCTANAL/WATER

Not available

**AUTO-IGNITION TEMPERATURE** 

Not available

**DECOMPOSITION TEMPERATURE** 

Not available

VISCOSITY @ 20 DEG C

Not available

EXPLOSIVE PROPERTIES
OXIDISING PROPERTIES

Not available

Not available

9.2 Other information

No further information available

## Section 10. Stability and reactivity

#### 10.1 Reactivity

Not determined

## 10.2 Chemical Stability

Stable under the recommended storage conditions (see section 7).

## 10.3 Possibility of hazardous reactions

No hazardous reactions if stored under suitable storage conditions.

### 10.4 Conditions to avoid

Avoid exposure to heat, sources of ignition, and open flame. Avoid exposure to air.

#### 10.5 Incompatible materials

Keep away from oxidising agents and from highly alkaline or acidic material.

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### 10.6 Hazardous decomposition products

During combustion may form carbon monoxide, carbon dioxide and unidentified organic compounds.

## Section 11. Toxicological information

### 11.1 Information on toxicological effects

Acute toxicity

May be harmful if swallowed.

Skin corrosion / irritation

Causes skin irritation.

Serious eye damage / irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

Germ cell mutagenicity

No data

Carcinogenicity

No data

Reproductive toxicity

No data

STO-single exposure

No data

STO-repeated exposure

No data

Aspiration hazard

May be fatal if swallowed and enters airways.

Information on likely routes of exposure

No data

Symptoms related to the physical, chemical and toxicological characteristics No data

Delayed and immediate effects as well as chronic effects from short and long-term exposure

No data

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Interactive effects

No data

Other information

No data

## Section 12. Ecological information

### 12.1 Toxicity

Very toxic to aquatic life with long lasting effects. Avoid contaminating waterways.

d-Limonene (5989-27-5)

LC50 fish 1(Lethal) - Pimephales promelas (fathead minnow) –  $720\mu g/L$  – 96~h EC50 (GLP) - Daphinia magna – 0.36mg/L – 48~h

Threshold limit 1 (GLP) - Desmodesmus subspicatus (green algae) - 150mg/L - 72 h

12.2 Persistence and degradability

No data

12.3 Bioaccumulative potential

No data

12.4 Mobility in soil

Prevent contamination of soil, ground and surface water.

12.5 Results of PBT and vPvB assessment

No data

12.6 Other adverse effects

See sections 6, 7, 13 and 15.

## Section 13. Disposal considerations

Please refer to the information in section 8 (Exposure controls and personal protection)

## 13.1 Waste treatment methods

Dispose in accordance with the law and local regulations. Treat as trade effluent.

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- 14. Transport information
- 14.1 UN number

ADR 1993 IATA 1993 IMDG 1993

14.2 UN proper shipping name

ADR FLAMMABLE LIQUID, N.O.S. (LEMON OIL)

IATA FLAMMABLE LIQUID, N.O.S. (LEMON OIL)

IMDG FLAMMABLE LIQUID, N.O.S. (LEMON OIL)

14.3 Transport hazard class(es)

ADR 3 IATA 3 IMDG 3

14.4 Packing group

ADR III
IATA III
IMDG III

**Tunnel Code** 

14.5 Environmental Hazards

Dangerous for the environment. Marine pollutant.

14.6 Special precautions for user

Maritime Transport (International Maritime Dangerous Goods Code (IMDG Code)):

EmS: F-E, S-E

Marine Pollutant: Yes

Road and Rail Transport (Australian Dangerous Goods Code (ADG Code)):

HazChem Code • 3Y

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable

Section 15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Poison Schedule: S5 CAUTION HS Tariff Code: 3302.90.00

HSNO Approval Number: HSR002495

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## 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out

## Section 16. Other information

Full list of precautionary phrases	Full I	list of	precautionary	phrases
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ruii iist oi precautioi	ially pril ases
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignnition sources. No smoking.
P241	Use explosion-proof equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P261	Avoid breathing fumes.
P264	Wash hands thoroughly after handling
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves and eye protection
P301+P310	IF SWALLOWED: Immediately call a POISON CENTRE.
P302+P352	IF ON SKIN: Wash with plenty of water.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P331	Do NOT induce vomiting.
P333+P313	If skin irritation or rash occurs: Get medical advice.
P337+P313	If eye irritation persists: Get medical attention.
P351	Rinse cautiously with water for several minutes.
P362+P364	Take off all contaminated clothing and wash it before reuse.
P391	Collect spillage.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents and container in accordance with local regulation.

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Wording of	of any ha	azard cl	lasses l	listed i	n section 3

FL 3	Flammable liquid, category 3
FL 4	Flammable liquid, category 4
ATO 4	Acute toxicity, oral, category 4
ATO 5	Acute toxicity, oral, category 5
AH 1	Aspiration hazard, category 1
SCI 2	Skin corrosion/irritation, category 2

SCI 3 Skin corrosion/irritation, category 3 SS 1 Skin sensitisation, category 1 SS 1B Skin sensitisation, category 1B EDI 2A Eye damage/irritation, category 2A EH A1 Aquatic hazard, acute, category 1 EH A2 Aquatic hazard, acute, category 2

Wording of any hazard statements listed in section 3

H226	Flammable lig	uid and vapour

H227	Combustible liquid	
H302	Harmful if swallowed	

H303 May be harmful if swallowed

May be fatal if swallowed and enters airways H304

Aquatic hazard, chronic, category 1

H315 Causes skin irritation H316 Causes mild skin irritation

H317 May cause an allergic skin reaction

H319 Causes serious eye irritation Very toxic to aquatic life H400

H401 Toxic to aquatic life

H410 Very toxic to aquatic life with long lasting effects

References and further information

N/A = Not applicable

Version 1: GHS format, BV 17/07/2017 Version 2: System update, BV 30/04/2020

Authorised by: JJ 30/04/2020

The information contained in this Safety Data Sheet is obtained from current and reliable sources. Pure Ingredients Ltd provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This Safety Data Sheet summarises our best current knowledge of the health and safety hazard information of the product, but does not claim to be all inclusive. This document is intended only as a guide to the appropriate handling of this material.

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