

Hazardous according to criteria of Australian Safety and Compensation Council.

## 1 Identification

- **Product identifier**
- **Trade name:** LEMON OS NATURAL FLAVOUR
- **Article number:** AOL9056
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Sector of Use** SU4 Manufacture of food products
- **Application of the substance / the mixture** Flavouring agents
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
 Metarom Australia  
 4/20-28 Ricketty Street  
 Mascot NSW 2020  
 Australia  
 +61 2 9317 5002
- **Further information obtainable from:** info@metarom.com.au
- **Emergency telephone number:**  
 Poison Information Centre NSW Australia 13 11 26  
 National Poisons Centre New Zealand 0800 764 766

## 2 Hazard(s) Identification

- **Classification of the substance or mixture**



flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



Skin Irrit. 2 H315 Causes skin irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

- **Label elements**
- **GHS label elements** The product is classified and labelled according to the Globally Harmonised System (GHS).
- **Hazard pictograms**



GHS02



GHS07

- **Signal word** Warning
- **Hazard-determining components of labelling:**  
 Citral  
 dl-Limonene (racemic)  
 Alpha pinene
- **Hazard statements**  
 H226 Flammable liquid and vapour.  
 H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.
- **Precautionary statements**  
 P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
 P241 Use explosion-proof electrical/ventilating/lighting equipment.  
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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### 3 Composition and Information on Ingredients

- **Chemical characterisation: Mixtures**

- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

|            |                       |                                                                  |             |
|------------|-----------------------|------------------------------------------------------------------|-------------|
| 5392-40-5  | Citral                | ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317; Flam. Liq. 4, H227    | ≥2.5-<10%   |
| 138-86-3   | dL-Limonene (racemic) | ⚠ Flam. Liq. 3, H226; ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317  | ≥2.5-<10%   |
| 123-35-3   | Myrcene               | ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; ⚠ Skin Irrit. 2, H315 | ≥0-≤2.5%    |
| 80-56-8    | Alpha pinene          | ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; ⚠ Skin Sens. 1, H317  | ≥1-<2.5%    |
| 99-85-4    | p-Mentha-1,4-diene    | ⚠ Flam. Liq. 3, H226; ⚠ Repr. 2, H361; Asp. Tox. 1, H304         | ≤2.5%       |
| 127-91-3   | beta-Pinene           | ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; ⚠ Skin Sens. 1, H317  | ≥0.25-<1%   |
| 78-70-6    | linalool              | ⚠ Skin Irrit. 2, H315; Skin Sens. 1B, H317; Flam. Liq. 4, H227   | ≥0.1-<1%    |
| 13466-78-9 | delta-3-Carene        | ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; ⚠ Skin Sens. 1, H317  | ≥0.1-<0.25% |

- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

### 4 First Aid Measures

- **Description of first aid measures**

- **General information:** Immediately remove any clothing soiled by the product.

- **After inhalation:**

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

- **After eye contact:** Rinse opened eye for several minutes under running water.

- **After swallowing:** If symptoms persist consult doctor.

- **Information for doctor:**

- **Most important symptoms and effects, both acute and delayed** No further relevant information available.

- **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

### 5 Fire Fighting Measures

- **Extinguishing media**

- **Suitable extinguishing agents:** CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- **Special hazards arising from the substance or mixture** No further relevant information available.

- **Advice for firefighters**

- **Protective equipment:** No special measures required.

### 6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

- **Environmental precautions:**

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

- **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

- **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### 7 Handling and Storage

- **Handling:**

- **Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

- **Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- **Conditions for safe storage, including any incompatibilities**

- **Storage:**

- **Requirements to be met by storerooms and receptacles:** No special requirements.

- **Information about storage in one common storage facility:** Not required.

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- **Further information about storage conditions:** Keep container tightly sealed.
- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls and personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists valid during the making were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Avoid contact with the skin.  
Avoid contact with the eyes and skin.
- **Respiratory protection:**  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**



Tightly sealed goggles

## 9 Physical and Chemical Properties

|                                                                |                                                                                             |
|----------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| · <b>Information on basic physical and chemical properties</b> |                                                                                             |
| · <b>General Information</b>                                   |                                                                                             |
| · <b>Appearance:</b>                                           |                                                                                             |
| <b>Form:</b>                                                   | Fluid                                                                                       |
| <b>Colour:</b>                                                 | Yellow                                                                                      |
| · <b>Odour:</b>                                                | Characteristic                                                                              |
| · <b>Odour threshold:</b>                                      | Not determined.                                                                             |
| · <b>pH-value:</b>                                             | Not determined.                                                                             |
| · <b>Change in condition</b>                                   |                                                                                             |
| <b>Melting point/freezing point:</b>                           | Undetermined.                                                                               |
| <b>Initial boiling point and boiling range:</b>                | Undetermined.                                                                               |
| · <b>Flash point:</b>                                          | 47 °C                                                                                       |
| · <b>Flammability (solid, gas):</b>                            | Not applicable.                                                                             |
| · <b>Decomposition temperature:</b>                            | Not determined.                                                                             |
| · <b>Auto-ignition temperature:</b>                            | Product is not selfigniting.                                                                |
| · <b>Explosive properties:</b>                                 | Product is not explosive. However, formation of explosive air/vapour mixtures are possible. |
| · <b>Explosion limits:</b>                                     |                                                                                             |
| <b>Lower:</b>                                                  | Not determined.                                                                             |
| <b>Upper:</b>                                                  | Not determined.                                                                             |

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|                                                  |                                            |
|--------------------------------------------------|--------------------------------------------|
| · <b>Vapour pressure:</b>                        | Not determined.                            |
| · <b>Density at 20 °C:</b>                       | 0.84797 g/cm <sup>3</sup>                  |
| · <b>Relative density</b>                        | Not determined.                            |
| · <b>Vapour density</b>                          | Not determined.                            |
| · <b>Evaporation rate</b>                        | Not determined.                            |
| · <b>Solubility in / Miscibility with water:</b> | Fully miscible.                            |
| · <b>Partition coefficient: n-octanol/water:</b> | Not determined.                            |
| · <b>Viscosity:</b>                              |                                            |
| <b>Dynamic:</b>                                  | Not determined.                            |
| <b>Kinematic:</b>                                | Not determined.                            |
| · <b>Solvent content:</b>                        |                                            |
| <b>Solids content:</b>                           | 0.0 %                                      |
| · <b>Other information</b>                       | No further relevant information available. |

### 10 Stability and Reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological Information

- **Information on toxicological effects**
- **Acute toxicity**
- **Primary irritant effect:**
- **Skin corrosion/irritation** Irritant to skin and mucous membranes.
- **Serious eye damage/irritation** No irritating effect.
- **Respiratory or skin sensitisation** Sensitisation possible through skin contact.
- **Additional toxicological information:**  
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:  
Irritant

### 12 Ecological Information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water  
Do not allow product to reach ground water, water course or sewage system, even in small quantities.  
Danger to drinking water if even extremely small quantities leak into the ground.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation** Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

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### 14 Transport information

|                                                                                                                                                                     |                                                                                                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| · UN-Number<br>· ADG, IMDG, IATA                                                                                                                                    | UN1169                                                                                                                                                              |
| · UN proper shipping name<br>· ADG<br>· IMDG<br>· IATA                                                                                                              | 1169 EXTRACTS, AROMATIC, LIQUID,<br>ENVIRONMENTALLY HAZARDOUS<br>EXTRACTS, AROMATIC, LIQUID (DIPENTENE, Myrcene),<br>MARINE POLLUTANT<br>EXTRACTS, AROMATIC, LIQUID |
| · Transport hazard class(es)<br>· ADG                                                                                                                               |                                                                                                                                                                     |
|   |                                                                                                                                                                     |
| · Class<br>· Label                                                                                                                                                  | 3 (F1) Flammable liquids.<br>3                                                                                                                                      |
| · IMDG                                                                                                                                                              |                                                                                                                                                                     |
|   |                                                                                                                                                                     |
| · Class<br>· Label                                                                                                                                                  | 3 Flammable liquids.<br>3                                                                                                                                           |
| · IATA                                                                                                                                                              |                                                                                                                                                                     |
|                                                                                  |                                                                                                                                                                     |
| · Class<br>· Label                                                                                                                                                  | 3 Flammable liquids.<br>3                                                                                                                                           |
| · Packing group<br>· ADG, IMDG, IATA                                                                                                                                | III                                                                                                                                                                 |
| · Environmental hazards:<br>· Marine pollutant:<br>· Special marking (ADG):                                                                                         | Product contains environmentally hazardous substances: dl-Limonene (racemic)<br>Symbol (fish and tree)<br>Symbol (fish and tree)                                    |
| · Special precautions for user<br>· Hazard identification number (Kemler code):<br>· EMS Number:<br>· Stowage Category                                              | Warning: Flammable liquids.<br>30<br>F-E,S-D<br>A                                                                                                                   |
| · Transport in bulk according to Annex II of Marpol and the IBC Code                                                                                                | Not applicable.                                                                                                                                                     |
| · Transport/Additional information:                                                                                                                                 |                                                                                                                                                                     |
| · ADG<br>· Limited quantities (LQ)<br>· Excepted quantities (EQ)                                                                                                    | 5L<br>Code: E1<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 1000 ml                                              |
| · Transport category<br>· Tunnel restriction code                                                                                                                   | 3<br>D/E                                                                                                                                                            |
| · IMDG<br>· Limited quantities (LQ)<br>· Excepted quantities (EQ)                                                                                                   | 5L<br>Code: E1<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 1000 ml                                              |
| · UN "Model Regulation":                                                                                                                                            | UN 1169 EXTRACTS, AROMATIC, LIQUID, 3, III,<br>ENVIRONMENTALLY HAZARDOUS                                                                                            |

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### 15 Regulatory information

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

· **Australian Inventory of Industrial Chemicals**

All ingredients are listed.

· **Standard for the Uniform Scheduling of Medicines and Poisons**

5392-40-5 Citral

S5

· **Australia: Priority Existing Chemicals**

138-86-3 dl-Limonene (racemic)

· **GHS label elements** The product is classified and labelled according to the Globally Harmonised System (GHS).

· **Hazard pictograms**



GHS02

GHS07

· **Signal word** Warning

· **Hazard-determining components of labelling:**

Citral

dl-Limonene (racemic)

Alpha pinene

· **Hazard statements**

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

· **Precautionary statements**

P210

Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P241

Use explosion-proof electrical/ventilating/lighting equipment.

P261

Avoid breathing dust/fume/gas/mist/vapours/spray.

P280

Wear protective gloves/protective clothing/eye protection/face protection.

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

P501

Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **Seveso category**

E2 Hazardous to the Aquatic Environment

P5c FLAMMABLE LIQUIDS

· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t

· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

H226 Flammable liquid and vapour.

H227 Combustible liquid.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H361 Suspected of damaging fertility or the unborn child.

· **Department issuing SDS:** Regulation and technical service

· **Contact:**

· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 3: Flammable liquids – Category 3

Flam. Liq. 4: Flammable liquids – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

Skin Sens. 1B: Skin sensitisation – Category 1B

Repr. 2: Reproductive toxicity – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1