



# SAFETY DATA SHEET

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

### 1.1 Product identifier

Product name NATURAL LEMON EXTRACT (OIL BASED)

### 1.2 Uses and uses advised against

Uses FOOD FLAVOURING

### 1.3 Details of the supplier of the product

Supplier name DR. OETKER QUEEN AUSTRALIA PTY LTD  
Address 17-19 Wakefield St, Alderley, QLD, 4051, AUSTRALIA  
Telephone 1800 826 455 (AUS); +61 7 3356 7344 (overseas)  
Email [customer.service@oetker.com.au](mailto:customer.service@oetker.com.au)  
Website <http://queen.com.au>

### 1.4 Emergency telephone numbers

Australia 1800 826 455  
From overseas +61 7 3356 7344

### 1.7 Details of alternative suppliers of the product

Supplier name DR. OETKER NEW ZEALAND LTD  
300 Richmond Road (135, 136), Grey Lynn, Auckland, 1021, NEW ZEALAND  
Phone: 0800 638 537  
Emergency: 0800 638 537  
[customer.service@oetker.co.nz](mailto:customer.service@oetker.co.nz)  
<http://queen.com.au>

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

#### Physical Hazards

Flammable Liquids: Category 4

#### Health Hazards

Skin Corrosion/Irritation: Category 2  
Skin Sensitisation: Category 1

#### Environmental Hazards

Not classified as an Environmental Hazard

### 2.2 GHS Label elements

Signal word WARNING

Pictograms



## PRODUCT NAME NATURAL LEMON EXTRACT (OIL BASED)

### Hazard statements

|      |                                      |
|------|--------------------------------------|
| H227 | Combustible liquid.                  |
| H315 | Causes skin irritation.              |
| H317 | May cause an allergic skin reaction. |

### Prevention statements

|      |  |
|------|--|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| 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.                         |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection.                     |

### Response statements

|             |  |
|-------------|--|
| P302 + P352 | IF ON SKIN: Wash with plenty of water.                           |
| P321        | Specific treatment is advised - see first aid instructions.      |
| P333 + P313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P362 + P364 | Take off contaminated clothing and wash it before reuse.         |
| P370 + P378 | In case of fire: Use appropriate media to extinguish.            |

### Storage statements

|      |                                   |
|------|-----------------------------------|
| P403 | Store in a well-ventilated place. |
|------|-----------------------------------|

### Disposal statements

|      |  |
|------|--|
| P501 | Dispose of contents/container in accordance with relevant regulations. |
|------|--|

### 2.3 Other hazards

No information provided.

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## 3. COMPOSITION/ INFORMATION ON INGREDIENTS

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### 3.1 Substances / Mixtures

| Ingredient                | CAS Number    | EC Number     | Content   |
|---------------------------|---------------|---------------|-----------|
| D-LIMONENE                | 5989-27-5     | 227-813-5     | 4 to 10%  |
| BETA-PINENE               | 127-91-3      | 204-872-5     | 0.8 to 2% |
| P-MENTHA-1,4-DIENE        | 99-85-4       | 202-794-6     | 0.4 to 1% |
| VEGETABLE OIL(S)          | -             | -             | 90 to 92% |
| NON HAZARDOUS INGREDIENTS | Not Available | Not Available | Remainder |

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## 4. FIRST AID MEASURES

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### 4.1 Description of first aid measures

|                             |  |
|-----------------------------|--|
| <b>Eye</b>                  | If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.                 |
| <b>Inhalation</b>           | If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.  |
| <b>Skin</b>                 | If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor. |
| <b>Ingestion</b>            | For advice, contact a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If swallowed, do not induce vomiting.   |
| <b>First aid facilities</b> | Eye wash facilities and normal washroom facilities should be available.  |

### 4.2 Most important symptoms and effects, both acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

### 4.3 Immediate medical attention and special treatment needed

Treat symptomatically.

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## 5. FIRE FIGHTING MEASURES

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### 5.1 Extinguishing media

Dry agent, carbon dioxide or foam. Prevent contamination of drains and waterways.

## PRODUCT NAME NATURAL LEMON EXTRACT (OIL BASED)

### 5.2 Special hazards arising from the substance or mixture

Combustible. May evolve carbon oxides and hydrocarbons when heated to decomposition.

### 5.3 Advice for firefighters

Evacuate area and contact emergency services. Toxic gases may be evolved in a fire situation. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.

### 5.4 Hazchem code

None allocated.

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## 6. ACCIDENTAL RELEASE MEASURES

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### 6.1 Personal precautions, protective equipment and emergency procedures

Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS.

### 6.2 Environmental precautions

Prevent product from entering drains and waterways.

### 6.3 Methods of cleaning up

Contain spillage, then cover / absorb spill with non-combustible absorbent material (vermiculite, sand, or similar), collect and place in suitable containers for disposal.

### 6.4 Reference to other sections

See Sections 8 and 13 for exposure controls and disposal.

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## 7. HANDLING AND STORAGE

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### 7.1 Precautions for safe handling

Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well ventilated area, removed from incompatible substances, heat or ignition sources and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Check regularly for leaks or spills.

### 7.3 Specific end uses

No information provided.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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### 8.1 Control parameters

#### Exposure standards

| Ingredient          | Reference      | TWA |                   | STEL |                   |
|---------------------|----------------|-----|-------------------|------|-------------------|
|                     |                | ppm | mg/m <sup>3</sup> | ppm  | mg/m <sup>3</sup> |
| Vegetable oil mists | SWA [AUS]      | --  | 10                | --   | --                |
| Vegetable oil mists | SWA [Proposed] | --  | --                | --   | --                |

#### Biological limits

No biological limit values have been entered for this product.

### 8.2 Exposure controls

#### Engineering controls

Avoid inhalation. Use in well ventilated areas. Maintain vapour levels below the recommended exposure standard.

## PRODUCT NAME NATURAL LEMON EXTRACT (OIL BASED)

### PPE

|                    |   |
|--------------------|---|
| <b>Eye / Face</b>  | Wear splash-proof goggles.  |
| <b>Hands</b>       | Wear PVC or rubber gloves.  |
| <b>Body</b>        | When using large quantities or where heavy contamination is likely, wear coveralls. |
| <b>Respiratory</b> | Not required under normal conditions of use.  |



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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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### 9.1 Information on basic physical and chemical properties

|                                  |                                 |
|----------------------------------|---------------------------------|
| <b>Appearance</b>                | CLEAR SLIGHTLY YELLOWISH LIQUID |
| <b>Odour</b>                     | CHARACTERISTIC LEMON ODOUR      |
| <b>Flammability</b>              | CLASS C1 COMBUSTIBLE            |
| <b>Flash point</b>               | 81.5°C (closed cup)             |
| <b>Boiling point</b>             | NOT AVAILABLE                   |
| <b>Melting point</b>             | NOT AVAILABLE                   |
| <b>Evaporation rate</b>          | NOT AVAILABLE                   |
| <b>pH</b>                        | NOT AVAILABLE                   |
| <b>Vapour density</b>            | NOT AVAILABLE                   |
| <b>Relative density</b>          | 0.87 to 0.91                    |
| <b>Solubility (water)</b>        | INSOLUBLE                       |
| <b>Vapour pressure</b>           | NOT AVAILABLE                   |
| <b>Upper explosion limit</b>     | NOT AVAILABLE                   |
| <b>Lower explosion limit</b>     | NOT AVAILABLE                   |
| <b>Partition coefficient</b>     | NOT AVAILABLE                   |
| <b>Autoignition temperature</b>  | NOT AVAILABLE                   |
| <b>Decomposition temperature</b> | NOT AVAILABLE                   |
| <b>Viscosity</b>                 | NOT AVAILABLE                   |
| <b>Explosive properties</b>      | NOT AVAILABLE                   |
| <b>Oxidising properties</b>      | NOT AVAILABLE                   |
| <b>Odour threshold</b>           | NOT AVAILABLE                   |

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## 10. STABILITY AND REACTIVITY

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### 10.1 Reactivity

Carefully review all information provided in sections 10.2 to 10.6.

### 10.2 Chemical stability

Stable under recommended conditions of storage.

### 10.3 Possibility of hazardous reactions

Polymerization will not occur.

### 10.4 Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources.

### 10.5 Incompatible materials

Incompatible with oxidising agents (e.g. hypochlorites), heat and ignition sources.

### 10.6 Hazardous decomposition products

May evolve carbon oxides and hydrocarbons when heated to decomposition.

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## 11. TOXICOLOGICAL INFORMATION

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### 11.1 Information on toxicological effects

**Acute toxicity** Based on available data, the classification criteria are not met.

**PRODUCT NAME NATURAL LEMON EXTRACT (OIL BASED)****Information available for the ingredients:**

| Ingredient  | Oral LD50        | Dermal LD50           | Inhalation LC50 |
|-------------|------------------|-----------------------|-----------------|
| D-LIMONENE  | 4400 mg/kg (rat) | > 5000 mg/kg (rabbit) | --              |
| BETA-PINENE | 4700 mg/kg (rat) | --                    | --              |

|                                 |   |
|---------------------------------|---|
| <b>Skin</b>                     | Contact may result in irritation, rash and dermatitis.  |
| <b>Eye</b>                      | Contact may result in irritation, lacrimation and redness.  |
| <b>Sensitisation</b>            | May cause an allergic skin reaction. This product is not classified as a respiratory sensitiser.          |
| <b>Mutagenicity</b>             | Not classified as a mutagen.  |
| <b>Carcinogenicity</b>          | Not classified as a carcinogen.   |
| <b>Reproductive</b>             | Not classified as a reproductive toxin.   |
| <b>STOT - single exposure</b>   | Over exposure may result in central nervous system (CNS) effects with headache, drowsiness and dizziness. |
| <b>STOT - repeated exposure</b> | Not classified as causing organ damage from repeated exposure.  |
| <b>Aspiration</b>               | Not classified as causing aspiration.   |

**12. ECOLOGICAL INFORMATION****12.1 Toxicity**

No information provided.

**12.2 Persistence and degradability**

No information provided.

**12.3 Bioaccumulative potential**

No information provided.

**12.4 Mobility in soil**

No information provided.

**12.5 Other adverse effects**

No information provided.

**13. DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

**Waste disposal** For small amounts, absorb with sand, vermiculite or similar and dispose of to an approved landfill site. For large quantities, contact the manufacturer/supplier for additional information.

**Legislation** Dispose of in accordance with relevant local legislation.

**14. TRANSPORT INFORMATION****NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE, IMDG OR IATA**

|                                    | LAND TRANSPORT (ADG) | SEA TRANSPORT (IMDG / IMO) | AIR TRANSPORT (IATA / ICAO) |
|------------------------------------|----------------------|----------------------------|-----------------------------|
| <b>14.1 UN Number</b>              | None allocated.      | None allocated.            | None allocated.             |
| <b>14.2 Proper Shipping Name</b>   | None allocated.      | None allocated.            | None allocated.             |
| <b>14.3 Transport hazard class</b> | None allocated.      | None allocated.            | None allocated.             |
| <b>14.4 Packing Group</b>          | None allocated.      | None allocated.            | None allocated.             |

**14.5 Environmental hazards**

Not a Marine Pollutant.

**14.6 Special precautions for user**

**Hazchem code** None allocated.

**PRODUCT NAME NATURAL LEMON EXTRACT (OIL BASED)**

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F-E, S-D

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**15. REGULATORY INFORMATION**

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

|                           |  |
|---------------------------|--|
| <b>Poison schedule</b>    | A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).  |
| <b>Classifications</b>    | Safe Work Australia criteria is based on the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals (GHS Revision 7).   |
| <b>Inventory listings</b> | <b>AUSTRALIA: AIIC (Australian Inventory of Industrial Chemicals)</b><br>All components are listed on AIIC, or are exempt.<br><b>NEW ZEALAND: NZIoC (New Zealand Inventory of Chemicals)</b><br>All components are listed on the NZIoC inventory, or are exempt. |

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**16. OTHER INFORMATION**

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**Additional information** PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:  
The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as form of product, method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

HEALTH EFFECTS FROM EXPOSURE:  
It should be noted that the effects from exposure to this product will depend on several factors including: form of product; frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

|                      |                   |   |
|----------------------|-------------------|---|
| <b>Abbreviations</b> | ACGIH             | American Conference of Governmental Industrial Hygienists   |
|                      | CAS #             | Chemical Abstract Service number - used to uniquely identify chemical compounds                   |
|                      | CNS               | Central Nervous System  |
|                      | EC No.            | EC No - European Community Number   |
|                      | EMS               | Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous Goods)                     |
|                      | GHS               | Globally Harmonized System  |
|                      | GTEPG             | Group Text Emergency Procedure Guide  |
|                      | IARC              | International Agency for Research on Cancer   |
|                      | LC50              | Lethal Concentration, 50% / Median Lethal Concentration   |
|                      | LD50              | Lethal Dose, 50% / Median Lethal Dose   |
|                      | mg/m <sup>3</sup> | Milligrams per Cubic Metre  |
|                      | OEL               | Occupational Exposure Limit   |
|                      | pH                | relates to hydrogen ion concentration using a scale of 0 (highly acidic) to 14 (highly alkaline). |
|                      | ppm               | Parts Per Million   |
|                      | STEL              | Short-Term Exposure Limit   |
|                      | STOT-RE           | Specific target organ toxicity (repeated exposure)  |
|                      | STOT-SE           | Specific target organ toxicity (single exposure)  |
|                      | SUSMP             | Standard for the Uniform Scheduling of Medicines and Poisons                                      |
|                      | SWA               | Safe Work Australia   |
|                      | TLV               | Threshold Limit Value   |
|                      | TWA               | Time Weighted Average   |