SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: PALMOLIVE ULTRA ANTIBACTERIAL DISHWASHING LIQUID LEMON

Product code: 200000025235

Manufacturer or supplier's details
Address: Colgate-Palmolive Pty Ltd., 345 George St, Sydney, New South Wales, Australia 2000.
 Telephone: Consumer affairs: AU 1800 802 307 (Mon – Fri 9 - 5)

Emergency telephone number: CHEMTREC Australia +(61)-290372994
Global-CHEMTREC - +1 703-741-5970

Recommended use of the chemical and restrictions on use
Recommended use: A formulated dishwashing liquid

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification
Serious eye damage/eye irritation: Category 2A

GHS label elements
Hazard pictograms: ⚠️

Signal word: Warning

Hazard statements: H319 Causes serious eye irritation.

Precautionary statements:
Prevention: P264 Wash skin thoroughly after handling.
P280 Wear eye protection/ face protection.

Response: P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>Concentration (% w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SODIUM LAURETH SULFATE</td>
<td>9004-82-4</td>
<td>&gt;= 10 - &lt; 30</td>
</tr>
<tr>
<td>COCAMIDOPROPYL BETAIN</td>
<td>61789-40-0</td>
<td>&lt; 10</td>
</tr>
<tr>
<td>ETHANOL (ETHYL ALCOHOL)</td>
<td>64-17-5</td>
<td>&lt; 10</td>
</tr>
<tr>
<td>L(+)-LACTIC ACID</td>
<td>79-33-4</td>
<td>&lt; 10</td>
</tr>
</tbody>
</table>

SECTION 4. FIRST AID MEASURES

General advice

If poisoning occurs, immediately contact a doctor or Poisons Information Centre (Phone Australia 131126; New Zealand 0800 764 766), and follow the advice given.

If inhaled

Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion. If symptoms persist, call a physician.

In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water.

In case of eye contact

Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing.

If swallowed

Clean mouth with water and drink afterwards plenty of water. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

None known.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Hazardous combustion products

No hazardous combustion products are known.
PALMOLIVE ULTRA ANTIBACTERIAL DISHWASHING LIQUID LEMON

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Version 1.0  SDS Number: 660000003323  Revision Date: 12.09.2016

Specific extinguishing methods: Standard procedure for chemical fires.

Special protective equipment for firefighters: In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Environmental precautions: No special environmental precautions required.

Methods and materials for containment and cleaning up: Neutralize with chalk, alkali solution or ammonia. Wipe up with absorbent material (e.g. cloth, fleece). Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion: Normal measures for preventive fire protection.

Advice on safe handling: For personal protection see section 8. No special handling advice required.

Hygiene measures: General industrial hygiene practice.

Conditions for safe storage: Keep container tightly closed in a dry and well-ventilated place.

Materials to avoid: No special restrictions on storage with other products.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type</th>
<th>Control parameters / Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHANOL (ETHYL ALCOHOL)</td>
<td>64-17-5</td>
<td>TWA</td>
<td>1,000 ppm</td>
<td>AU OEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL</td>
<td>1,880 mg/m3 1,000 ppm</td>
<td></td>
</tr>
</tbody>
</table>

Personal protective equipment

Respiratory protection: No personal respiratory protective equipment normally required.

Hand protection

Remarks: For prolonged or repeated contact use protective gloves.
SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid
Colour : yellow
pH : 3.3
Flash point : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Stable under recommended storage conditions.
Chemical stability : No decomposition if stored and applied as directed.
Possibility of hazardous reactions : No hazards to be specially mentioned.
Conditions to avoid : No data available

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:
Acute oral toxicity : Acute toxicity estimate: > 2,000 mg/kg
Method: Calculation method

Components:

SODIUM LAURETH SULFATE:
Acute oral toxicity : LD50 (Rat): 1,600 mg/kg
Method: No information available.
Acute inhalation toxicity : LC50 (Rabbit): > 5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: Acute toxicity estimate
Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg
Method: Acute toxicity estimate
COCAMIDOPROPYL BETAIN:  
Acute oral toxicity : LD50 (Rat): 4,900 mg/kg  
Method: Tested according to Annex V of Directive 67/548/EEC.

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : Remarks: No data available

ETHANOL (ETHYL ALCOHOL):  
Acute oral toxicity : LD50 (Rat): 10,470 mg/kg

Acute inhalation toxicity : LC50 (Rabbit): 124.7 mg/l  
Exposure time: 4 h  
Test atmosphere: No information available.  
Method: No information available.

Acute dermal toxicity : LD50 (Rat): > 15,800 mg/kg  
Method: No information available.

L(+)-LACTIC ACID:  
Acute oral toxicity : LD50 (Rat): 3,730 mg/kg

Acute inhalation toxicity : LC50 (Rabbit): 7.94 mg/l  
Exposure time: 4 h  
Test atmosphere: No information available.  
Method: No information available.

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg  
Method: No information available.

Skin corrosion/irritation

Product:  
Remarks: According to the classification criteria of the European Union, the product is not considered as being a skin irritant.

Components:

SODIUM LAURETH SULFATE:  
Result: Mild skin irritation

COCAMIDOPROPYL BETAIN:  
Result: Skin irritation

ETHANOL (ETHYL ALCOHOL):  
Result: No skin irritation
PALMOLIVE ULTRA ANTIBACTERIAL DISHWASHING LIQUID LEMON

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Version 1.0    SDS Number: 660000003323    Revision Date: 12.09.2016

L(+) - LACTIC ACID:
Result: Severe skin irritation

Serious eye damage/eye irritation

Product:
Remarks: According to the classification criteria of the European Union, the product is not considered as being an eye irritant.

Components:

SODIUM LAURETH SULFATE:
Result: Irritation to eyes, reversing within 21 days

COCAMIDOPROPYL BETAINE:
Result: Moderate eye irritation

ETHANOL (ETHYL ALCOHOL):
Result: Irritation to eyes, reversing within 21 days

L(+) - LACTIC ACID:
Result: Risk of serious damage to eyes.

Respiratory or skin sensitisation

Product:
Remarks: No data available

Components:

SODIUM LAURETH SULFATE:
Exposure routes: Inhalation
Result: Does not cause respiratory sensitisation.

Exposure routes: Dermal
Result: Does not cause skin sensitisation.

COCAMIDOPROPYL BETAINE:
Exposure routes: Inhalation
Remarks: No data available

Exposure routes: Dermal
Result: Does not cause skin sensitisation.
ETHANOL (ETHYL ALCOHOL):
Exposure routes: Inhalation
Remarks: No data available

Exposure routes: Dermal
Result: Does not cause skin sensitisation.

L(+)-LACTIC ACID:
Exposure routes: Inhalation
Result: Does not cause respiratory sensitisation.

Exposure routes: Dermal
Result: Does not cause skin sensitisation.

Chronic toxicity

Further information

Product:
Remarks: This product has not been tested as a whole. However, this formula was reviewed by expert toxicologists in the Product Safety Assurance Department of Colgate-Palmolive and is determined to be safe for its intended use. This review has taken into consideration available safety-related information including information on individual ingredients, similar formulas and potential ingredient interactions. This review is a component of the hazard determination used to prepare the statements in Section 3 of the SDS.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

SODIUM LAURETH SULFATE:
Toxicity to fish : LC50 (Fish): > 100 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): > 100 mg/l
Exposure time: 48 h

Toxicity to algae : ErC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l
Exposure time: 72 h

Toxicity to fish (Chronic toxicity) : No data available:

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : No data available:
COCAMIDOPROPYL BETAINE:
Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): 2 mg/l
Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna Straus): 6.5 mg/l
Exposure time: 48 h
Toxicity to algae : ErC50 (Desmodesmus subspicatus (Scenedesmus subspicatus)): 1 - 10 mg/l
Exposure time: 72 h
M-Factor (Acute aquatic toxicity) : 1
Toxicity to fish (Chronic toxicity) : No data available:
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia sp. (water flea)): 0.9 mg/l

ETHANOL (ETHYL ALCOHOL):
Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 14.2 mg/l
Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna Straus): 5,012 mg/l
Exposure time: 48 h
Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l
Exposure time: 72 h
Toxicity to fish (Chronic toxicity) : No data available:
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : No data available:

L(+)-LACTIC ACID:
Toxicity to fish : LC50 (Fish): 320 mg/l
Exposure time: 48 h
Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 240 mg/l
Exposure time: 48 h
Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 3,500 mg/l
Exposure time: 72 h
Toxicity to fish (Chronic toxicity) : No data available:
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Version 1.0

APJ

Palmolive Ultra Antimicrobial Dishwashing Liquid

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity): No data available.

Persistence and degradability

Components:

Sodium Laureth Sulfate:
Biodegradability: Result: Not readily biodegradable.

Cocamidopropyl Betaine:
Biodegradability: Result: Readily biodegradable

Ethanol (Ethyl Alcohol):
Biodegradability: Result: Readily biodegradable

L(+)-Lactic Acid:
Biodegradability: Result: Biodegradable

Bioaccumulative potential

Components:

Sodium Laureth Sulfate:
Bioaccumulation: Bioconcentration factor (BCF): 1.85
Partition coefficient: n-octanol/water: log Pow: 1.62

Cocamidopropyl Betaine:
Bioaccumulation: Bioconcentration factor (BCF): 70.79
Partition coefficient: n-octanol/water: Remarks: Not applicable

Ethanol (Ethyl Alcohol):
Bioaccumulation: Bioconcentration factor (BCF): 1
Partition coefficient: n-octanol/water: log Pow: -0.14

L(+)-Lactic Acid:
Bioaccumulation: Remarks: No data available
PALMOLIVE ULTRA ANTIBACTERIAL DISHWASHING LIQUID LEMON

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Version 1.0

SDS Number: 660000003323

Revision Date: 12.09.2016

Partition coefficient: n-octanol/water

log Pow: -0.65

Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological information

There is no data available for this product.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Empty remaining contents. Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION

DOT

Not regulated.

TDG

Not regulated.

IATA

Not regulated.

IMDG

Not regulated.

ADR

NOT REGULATED.

International Regulation

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.
National Regulations

SECTION 15. REGULATORY INFORMATION

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

Standard for the Uniform Scheduling of Medicines and Poisons:
No poison schedule number allocated

Prohibition/Licensing Requirements:
There is no applicable prohibition or notification/licensing requirements, including for carcinogens under Commonwealth, State or Territory legislation.

The components of this product are reported in the following inventories:

AICS:
On the inventory, or in compliance with the inventory

NZIoC:
On the inventory, or in compliance with the inventory

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; CPR - Controlled Products Regulations; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECS - Inventory of Existing Chemical Substances; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KCIC - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50% of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concern-
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Version 1.0  SDS Number: 660000003323  Revision Date: 12.09.2016

Date format: dd.mm.yyyy

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