SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : PALMOLIVE NATURALS SHAMPOO ANTIDANDRUFF
Product code : 200000046088
: B05816480005

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)
: Consumer affairs: - NZ 0800 441 740 (Mon – Fri 9 - 5)

Emergency telephone number : CHEMTREC Australia  +(61)-290372994
: CHEMTREC New Zealand  +(64)-98010034
: Global-CHEMTREC- +1 703-741-5970

Recommended use of the chemical and restrictions on use

Recommended use : A formulated shampoo

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Skin corrosion/irritation : Category 2
Serious eye damage/eye irritation : Category 2A

GHS Label element

Hazard pictograms :

Signal word : Warning
Hazard statements : H315 Causes skin irritation.
: H319 Causes serious eye irritation.

Precautionary statements : Prevention:
: P264 Wash skin thoroughly after handling.
: P280 Wear protective gloves/ eye protection/ face protection.
Response:
: P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
: P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and
PALMOLIVE NATURALS SHAMPOO ANTIDANDRUFF

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Version 1.0  SDS Number: 660000001071  Revision Date: 13.04.2016

easy to do. Continue rinsing.
P332 + P313 If skin irritation occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P362 Take off contaminated clothing and wash before reuse.

Other hazards which do not result in classification
No information available.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Hazardous components</th>
<th>CAS-No.</th>
<th>Concentration (% w/w)</th>
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</thead>
<tbody>
<tr>
<td>AMMONIUM LAURETH SULFATE</td>
<td>32612-48-9</td>
<td>&gt;= 10 - &lt; 30</td>
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<tr>
<td>AMMONIUM LAURYL SULFATE</td>
<td>2235-54-3</td>
<td>&lt; 10</td>
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<tr>
<td>SODIUM CUMENESULFONATE</td>
<td>28348-53-0</td>
<td>&lt; 10</td>
</tr>
<tr>
<td>ACRYLATES COPOLYMER</td>
<td>25133-97-5</td>
<td>&lt; 10</td>
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</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: Causes skin irritation. Causes serious eye damage.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media: Use extinguishing measures that are appropriate to local cir-
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Hazardous combustion products: No hazardous combustion products are known

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: 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
Contains no substances with occupational exposure limit values.

Personal protective equipment
Respiratory protection: No personal respiratory protective equipment normally required.

Hand protection
Remarks: For prolonged or repeated contact use protective gloves.

Eye protection: Safety glasses

Skin and body protection: Protective suit
SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid
Colour : white
pH : 6.0
Flash point : No data available
Density : 1.015 g/cm³

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
Not classified based on available information.

Product:
Acute oral toxicity : Acute toxicity estimate: > 2,000 mg/kg
Method: Calculation method
Acute inhalation toxicity : Acute toxicity estimate: > 5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: Calculation method

Components:
AMMONIUM LAURETH SULFATE:
Acute oral toxicity : LD50 (Rat): 630 mg/kg
Method: No information available.
Acute inhalation toxicity : Remarks: No data available
Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 402
AMMONIUM LAURYL SULFATE:
Acute oral toxicity: Remarks: No data available
Acute inhalation toxicity: Remarks: No data available
Acute dermal toxicity: Remarks: No data available

SODIUM CUMENESULFONATE:
Acute oral toxicity: LD50 (Rat): > 7,000 mg/kg
Method: OECD Test Guideline 401
Acute inhalation toxicity: LC50 (Rabbit): > 770 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Acute dermal toxicity: LD50 (Rabbit): > 2,000 mg/kg
Method: No information available.

ACRYLATES COPOLYMER:
Acute oral toxicity: LD50 (Rat): > 5,000 mg/kg
Method: Acute toxicity estimate
Acute inhalation toxicity: Remarks: No data available
Acute dermal toxicity: LD50 (Rabbit): > 2,000 mg/kg
Method: Acute toxicity estimate

Skin corrosion/irritation
Causes skin irritation.

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

Components:
AMMONIUM LAURETH SULFATE:
Result: Severe skin irritation

AMMONIUM LAURYL SULFATE:
Result: Severe skin irritation

SODIUM CUMENESULFONATE:
Result: No skin irritation

ACRYLATES COPOLYMER:
Result: Severe skin irritation

Serious eye damage/eye irritation
Causes serious eye damage.
PALMOLIVE NATURALS SHAMPOO ANTIDANDRUFF

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Version 1.0     SDS Number: 660000001071     Revision Date: 13.04.2016

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

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

AMMONIUM LAURYL SULFATE:
Result: irritating

SODIUM CUMENESULFONATE:
Result: Irritation to eyes, reversing within 21 days

ACRYLATES COPOLYMER:
Result: Irritation to eyes, reversing within 21 days

Respiratory or skin sensitisation
Skin sensitisation: Not classified based on available information.
Respiratory sensitisation: Not classified based on available information.

Product:
Remarks: No data available

Components:
AMMONIUM LAURETH SULFATE:
Exposure routes: Inhalation
Remarks: No data available

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

AMMONIUM LAURYL SULFATE:
Exposure routes: Inhalation
Remarks: No data available

Exposure routes: Dermal
Remarks: No data available

SODIUM CUMENESULFONATE:
Exposure routes: Inhalation
Remarks: No data available

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

ACRYLATES COPOLYMER:
Exposure routes: Inhalation
Remarks: No data available

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

**Chronic toxicity**

**Germ cell mutagenicity**
Not classified based on available information.

**Carcinogenicity**
Not classified based on available information.

**Reproductive toxicity**
Not classified based on available information.

**STOT - single exposure**
Not classified based on available information.

**STOT - repeated exposure**
Not classified based on available information.

**Aspiration toxicity**
Not classified based on available information.

**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:**

**AMMONIUM LAURETH SULFATE:**

- **Toxicity to fish**: LC50 (Pimephales promelas (fathead minnow)): 2.2 mg/l
  Exposure time: 96 h

- **Toxicity to daphnia and other aquatic invertebrates**: EC50 (Daphnia magna (Water flea)): 20.2 mg/l
  Exposure time: 48 h

- **Toxicity to algae**: EC50 (Desmodesmus subspicatus (green algae)): 4 - 65 mg/l
  Exposure time: 72 h

- **Toxicity to fish (Chronic toxicity)**: NOEC (Oncorhynchus mykiss (rainbow trout)): 0.12 mg/l

- **Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)**: No data available:
ic toxicity)

**AMMONIUM LAURYL SULFATE:**

<table>
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<tr>
<th>Component</th>
<th>Toxicity to fish</th>
<th>Toxicity to daphnia and other aquatic invertebrates</th>
<th>Toxicity to algae</th>
<th>Toxicity to fish (Chronic toxicity)</th>
<th>Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)</th>
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<td>LC50 (Fish): &gt; 10 mg/l</td>
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<td>Exposure time: 96 h</td>
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<td>EC50 (Daphnia magna (Water flea)): &gt; 10 mg/l</td>
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<td>Exposure time: 48 h</td>
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<td>Remarks: No data available</td>
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**SODIUM CUMENESULFONATE:**

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<td>LC50 (Leuciscus idus (Golden orfe)): &gt; 1,000 mg/l</td>
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<td>Exposure time: 48 h</td>
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<td>EC50 (Daphnia magna (Water flea)): &gt; 1,000 mg/l</td>
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<td>Exposure time: 24 h</td>
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<td>ErC50 (Desmodesmus subspicatus (Scenedesmus subspicatus)): &gt; 1,000 mg/l</td>
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<td>Exposure time: 72 h</td>
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<td>Remarks: No data available</td>
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**ACRYLATES COPOLYMER:**

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<td>LC50 (Fish): &gt; 100 mg/l</td>
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<td>Exposure time: 96 h</td>
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<td>ErC50 (Desmodesmus subspicatus (green algae)): &gt; 100 mg/l</td>
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<td>Exposure time: 72 h</td>
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</table>
Persistence and degradability

Components:

AMMONIUM LAURETH SULFATE:
Biodegradability : Result: Readily biodegradable

AMMONIUM LAURYL SULFATE:
Biodegradability : Result: Readily biodegradable

SODIUM CUMENESULFONATE:
Biodegradability : Result: Inherently biodegradable.

ACRYLATES COPOLYMER:
Biodegradability : Result: Not biodegradable

Bioaccumulative potential

Components:

AMMONIUM LAURETH SULFATE:
Bioaccumulation : Bioconcentration factor (BCF): 70.79
Partition coefficient: n-octanol/water : log Pow: 1.14

AMMONIUM LAURYL SULFATE:
Bioaccumulation : Remarks: No data available
Partition coefficient: n-octanol/water : log Pow: 2.42

SODIUM CUMENESULFONATE:
Bioaccumulation : Bioconcentration factor (BCF): 3.16
Partition coefficient: n-octanol/water : log Pow: -1.50

ACRYLATES COPOLYMER:
Bioaccumulation : Remarks: Bioaccumulation is unlikely.
Partition coefficient: n-octanol/water : Remarks: No data available

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.

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
APJ

PALMOLIVE NATURALS SHAMPOO ANTIDANDRUFF

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Version 1.0  SDS Number: 660000001071  Revision Date: 13.04.2016

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

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

(Q)SAR - (Quantitative) Structure Activity Relationship; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CPR - Controlled Products Regulations; DIN - Standard of the German Institute for Standardisation; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; 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; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organisation for Standardization; 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; OECD - Organization for Economic Cooperation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TDG - Transportation of Dangerous Goods; UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System; DSL - Domestic Substances List (Canada); KECI - Korea Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); AICS - Australian Inventory of Chemical Substances; IECSC - Inventory of Existing Chemical Substances in China; ENCS - Existing and New Chemical Substances (Japan); ISHL - Industrial Safety and Health Law (Japan); PICCS - Philippines Inventory of Chemicals and Chemical Substances; NZIoC - New Zealand Inventory of Chemicals; TCSI - Taiwan Chemical Substance Inventory; CMR - Carcinogen, Mutagen or Reproductive Toxicant; GLP - Good Laboratory Practice

Date format : dd.mm.yyyy

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

AU / EN