Safety Data Sheet

Infosafe No™ LQ2VV

Issue Date : December 2013

ISSUED by COLGATE

Product Name: PALMOLIVE HAND SANITISER- CRISP GREEN APPLE

Classified as hazardous

1. Identification

GHS Product Identifier
B06625160001

Company Name
Colgate-Palmolive Pty Ltd (ABN 002 792 163)

Address
Australia: Level 14, 345 George Street, Sydney
NSW 2000 Australia

Telephone/Fax Number
Tel: AUS (02) 9229 5600 NZ: 04 576 6700
Fax: AUS (02) 9229 5700, NZ: 04 568 8835

Emergency phone number
AUS 1800 638 556, NZ: 0800 764766

Recommended use of the chemical and restrictions on use
Leave on hand sanitiser

Other Names

PALMOLIVE HAND SANITIZER- CRISP GREEN APPLE
PALMOLIVE ALCOGEL- CRISP GREEN APPLE

New Zealand Address: Level 4, 45 Knights Road, Lower Hutt.

2. Hazard Identification

Classification of the substance or mixture
Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

Flammable Liquids: Category 2
Hazardous to the Aquatic Environment - Long-Term Hazard: Category 3
Danger

Hazard Statement(s)
H225 Highly flammable liquid and vapour.
H412 Harmful to aquatic life with long lasting effects.

General Precautionary Statement(s)
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.

Precautionary Statement – Prevention
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting/equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P273 Avoid release to the environment.
P280 Wear protective gloves/protection cloth/eye protective/face protection.

Precautionary Statement – Response
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P370+P378 In case of fire: Use carbon dioxide, dry chemical, foam, water fog or water mist for extinction.
P403+P355 Store in a well-ventilated place. Keep cool.

Precautionary Statement – Storage
P501 Dispose of contents/container to an approved waste disposal plant.

Precautionary Statement – Disposal

3. Composition/Information on ingredients

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS</th>
<th>Proportion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>64-17-5</td>
<td>60-100 %</td>
</tr>
<tr>
<td>2-amino 2-methyl</td>
<td>124-68-5</td>
<td>0.1-&lt;1 %</td>
</tr>
<tr>
<td>1-propanol</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Safety Data Sheet

Classified as hazardous

4. First-aid measures

Inhalation
If inhaled, remove affected person from contaminated area. Keep at rest until recovered. If symptoms develop and/or persist seek medical attention.

Ingestion
Do not induce vomiting. Wash out mouth thoroughly with water. Seek medical attention.

Skin
If irritation develops, discontinue use. Seek medical attention.

Eye contact
If in eyes, hold eyelids apart and flush the eyes continuously with running water. Remove contact lenses. Continue flushing for several minutes until all contaminants are washed out completely. If symptoms develop, seek medical attention.

Eyewash and normal washroom facilities.

First Aid Facilities
Treat symptomatically.

Advice to Doctor
For advice in an emergency, contact a Poisons Information Centre (Phone Australia 131 126; New Zealand 0800 POISON / 0800 764 766) or a doctor at once.

5. Fire-fighting measures

Suitable extinguishing media
Use carbon dioxide, dry chemical, foam, water fog or water mist. Alcohol resistant foam is preferred. If not available fine water spray/mist can be used.

Unsuitable Extinguishing Media
Do not use water jet.

Hazards from Combustion Products
Under fire conditions this product may emit toxic and/or irritating fumes and gases including carbon monoxide and carbon dioxide.

Specific hazards arising from the chemical
Highly flammable liquid and vapour. Vapour/air mixtures may ignite explosively. Flashback along the vapour trail may occur. Runoff to sewer may create fire or explosion hazard.

• 2YE

Decomposition Temp.
Not available

Precautions in connection with Fire
Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode. In case of fire the product may be violently or explosively reactive. Use water spray to disperse vapours. This product should be prevented from entering drains and watercourses.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures
Wear appropriate personal protective equipment and clothing to prevent exposure. Extinguish or remove all sources of ignition and stop leak if safe to do so. Increase ventilation. Evacuate all unprotected personnel. If possible contain the spill. Spillage can be slippery. Place inert absorbent, non-combustible material onto spillage. Use clean non-sparking tools to collect the material and place into suitable labelled containers for subsequent recycling or disposal. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.

7. Handling and storage

Precautions for Safe Handling
Follow instructions on label. Wear appropriate personal protective equipment and clothing to prevent exposure. Handle and use the material in a...
Conditions for safe storage, including any incompatibilities

- Well-ventilated area, away from sparks, flames and other ignition sources.
- Have emergency equipment (for fires, spills, leaks, etc.) readily available.
- Work from suitable, labelled, fire-resistant containers. Open containers carefully as they may be under pressure. Keep containers tightly closed.
- Flameproof equipment is necessary in areas where the product is being used. Take precautionary measures against static discharges. Earth or bond all equipment. Do not empty into drains. Ensure a high level of personal hygiene is maintained when using this product, that is, always wash hands before eating, drinking, smoking or using the toilet facilities.
- Store in a cool, dry, well-ventilated area away from sources of ignition, oxidising agents, strong acids, foodstuffs, and clothing. Keep containers closed when not in use, securely sealed and protected against physical damage.
- Inspect regularly for deficiencies such as damage or leaks. Have appropriate fire extinguishers available in and near the storage area. Take precautions against static electricity discharges. Use proper grounding procedures. Ensure that storage conditions comply with applicable local and national regulations.
- For information on the design of the storeroom, reference should be made to Australian Standard AS1940 - The storage and handling of flammable and combustible liquids.

8. Exposure controls/personal protection

### Occupational exposure limit values

<table>
<thead>
<tr>
<th>Substance</th>
<th>TWA</th>
<th>STEL</th>
<th>NOTICES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>180</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Diethyl phthalate</td>
<td>5</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Isoamyl alcohol</td>
<td>50</td>
<td>1230</td>
<td>-</td>
</tr>
</tbody>
</table>

TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

STEL (Short Term Exposure Limit): The average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.

Name: 2-Propanol (CAS 67-63-0)

Detergent: Acetone

Specimen: Urine

Sampling time: End of shift at end of work week.

Source: American Conference of Industrial Hygienists (ACGIH)

### Biological Limit Values

- Value: 40mg/l
- Sampling time: End of shift at end of work week.
- Source: American Conference of Industrial Hygienists (ACGIH)

### Appropriate engineering controls

- For industrial applications: This substance is hazardous and should be used with a local exhaust ventilation system, drawing vapours away from workers' breathing zone. A flame-proof exhaust ventilation system is required. If the engineering controls are not sufficient to maintain concentrations of vapours/mists below the exposure standards, suitable respiratory protection must be worn. Refer to relevant regulations for further information concerning ventilation requirements.

### Respiratory Protection

- Not required under normal conditions of use.

- For industrial applications: An approved respirator with a replaceable mist filter should be used. Reference should be made to Australian/New Zealand Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances. Not required. However, avoid eye contact.

### Eye Protection

- For industrial applications: Safety glasses with side shields or chemical goggles should be worn. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

### Hand Protection

- Not required under normal conditions of use.

- For industrial applications: Wear gloves of impervious material. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.
Product Name: PALMOLIVE HAND SANITISER- CRISP GREEN APPLE

Classified as hazardous

Body Protection
No special clothing required under normal conditions of use.
For industrial applications: Suitable protective work wear, e.g. cotton
overalls buttoned at neck and wrist is recommended. Chemical resistant apron
is recommended where large quantities are handled.

9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Green liquid with blue beads</td>
</tr>
<tr>
<td>Colour</td>
<td>Green</td>
</tr>
<tr>
<td>Odour</td>
<td>Not available</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Melting Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Not available</td>
</tr>
<tr>
<td>pH</td>
<td>7.5 (25°C, 1% solution)</td>
</tr>
<tr>
<td>Vapour Pressure</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapour Density (Air=1)</td>
<td>Not available</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not available</td>
</tr>
<tr>
<td>Oudor Threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Refer to Section 9: Kinematic Viscosity and Dynamic Viscosity</td>
</tr>
<tr>
<td>Volatile Component</td>
<td>Not available</td>
</tr>
<tr>
<td>Partition Coefficient: n-octanol/water</td>
<td>Not available</td>
</tr>
<tr>
<td>Density</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash Point</td>
<td>12.5°C</td>
</tr>
<tr>
<td>Flammability</td>
<td>Highly flammable</td>
</tr>
<tr>
<td>Auto-Ignition Temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammable Limits - Lower</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammable Limits - Upper</td>
<td>Not available</td>
</tr>
<tr>
<td>Explosion Properties</td>
<td>Not available</td>
</tr>
<tr>
<td>Oxidising Properties</td>
<td>Not available</td>
</tr>
<tr>
<td>Kinematic Viscosity</td>
<td>Not available</td>
</tr>
<tr>
<td>Dynamic Viscosity</td>
<td>7,000 cPs (25°C)</td>
</tr>
</tbody>
</table>

10. Stability and reactivity

Reactivity
Refer to Section 10: Possibility of hazardous reactions

Chemical Stability
Stable under normal conditions of storage and handling.

Conditions to Avoid
Heat, open flames and other sources of ignition.

Incompatible Materials
Strong oxidizing agents.

Hazardous Decomposition Products
Thermal decomposition may result in the release of toxic and/or irritating fumes, smoke and gases including carbon monoxide and carbon dioxide.

Possibility of hazardous reactions
Will react with incompatible materials.

11. Toxicological Information

Toxicology
No toxicity data available for this material.

Information
Ingestion of this product may irritate the gastric tract causing nausea and vomiting.

Inhalation
Inhalation of product vapours may cause irritation of the nose, throat and
Palmolive Hand Sanitiser - Crisp Green Apple

Classified as hazardous

Skin
- Respiratory system: May cause mild skin irritation in some sensitive individuals.

Eye
- May be irritating to eyes. The symptoms can include redness, itching and tearing.

Respiratory sensitisation
- Not expected to be a respiratory sensitizer.

Skin Sensitisation
- Not expected to be a skin sensitizer.

Germ cell mutagenicity
- Not considered to be a mutagenic hazard.

Carcinogenicity
- Not considered to be a carcinogenic hazard. Isopropanol is listed as a Group 3: Not classifiable as to carcinogenicity to humans according to International Agency for Research on Cancer (IARC). Polyacrylic acid is listed as a Group 3: Not classifiable as to carcinogenicity to humans according to International Agency for Research on Cancer (IARC).

Reproductive Toxicity
- Not expected to be toxic to reproduction.

STOT-single exposure
- Not expected to cause toxicity to a specific target organ.

STOT-repeated exposure
- Not expected to cause toxicity to a specific target organ.

Aspiration Hazard
- Not expected to be an aspiration hazard.

Ecotoxicity
- Harmful to aquatic life with long lasting effects.

Persistence and degradability
- Not available

Mobility
- Not available

Bioaccumulative Potential
- Not available

Protective Environmental
- Do not discharge this material into waterways, drains and sewers.

Disposal of waste according to applicable local and national regulations. Labels should not be removed from containers until they have been cleaned.

Advise flammable nature. Empty containers may contain flammable residues. Do not puncture, cut or weld on or near empty containers. Contaminated containers must not be treated as household waste. Containers should be cleaned by appropriate methods and then re-used or disposed of by landfill or incineration as appropriate. Do not incinerate closed containers. Wastes including emptied containers are controlled wastes and should be disposed of in accordance with all applicable local and national regulations. Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected.

This material is a Class 3 - Flammable Liquid according to The Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

Class 3 - Flammable Liquids are incompatible in a placard load with any of the following:
- Class 1, Explosives
- Division 2.1, Flammable Gases, (Division 2.1 and Class 3 are incompatible in transport if both are in tanks or other receptacles with a capacity individually exceeding 500 L.)
- Division 2.3, Toxic Gases
- Division 4.2 Spontaneously Combustible Substances
- Division 5.1 Oxidising Agents and Division 5.2, Organic Peroxides
- Class 6 Toxic or Infectious Substances (where the flammable liquid is nitromethane)
- Class 7: Radioactive materials unless specifically exempted

Marine Transport (IMO/IMDG):
Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

UN No.: 1170
Proper Shipping Name: ETHANOL
Product Name: PALMOLIVE HAND SANITISER - CRISP GREEN APPLE

Classified as hazardous

Class: 3
Packaging Group: II
EMS No.: F-E, S-D
Special Provision(s): 144

Air Transport (ICAO/IATA):
Classified as Dangerous Goods by the criteria of the International Air
Transport Association (IATA) Dangerous Goods Regulations for transport by air.
UN No.: 1170
Proper Shipping Name: Ethanol
Class: 3
Packaging Group: II
Label: Flammable liquid
Packaging Instructions (passenger & cargo): 353
Packaging Instructions (cargo only): 364
Special Provision(s): A3 A58 A180

U.N. Number

UN proper shipping name ETHANOL (ETHYL ALCOHOL)
Transport hazard class(es) 3
Hazchem Code 2YE
Packing Group II
EPG Number 3A1
IERTG Number 14
IMDG Marine pollutant No

15. Regulatory information

 Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.
Not classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)

16. Other Information

Date of preparation or last revision of SDS SDS Created: December 2013

Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice.
Standard for the Uniform Scheduling of Medicines and Poisons.
Australian Code for the Transport of Dangerous Goods by Road & Rail.
Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.
Workplace exposure standards for airborne contaminants, Safe work Australia.
American Conference of Industrial Hygienists (ACGIH).
Globally Harmonised System of classification and labelling of chemicals.

Contact Person/Point 24Hr Emergency Response
Australia- 1800 638 556
New Zealand- 0800 764 766

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Print Date: 23/05/2014
Page: 6 of 6