Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME
AMBI-PUR AIR-FRESHENER AEROSOL RANGE

PROPER SHIPPING NAME
AEROSOLS

PRODUCT USE
Application is by spray atomisation from a hand held aerosol pack.
MSDS are intended for use in the workplace. For domestic-use products, refer to consumer labels.
Air Freshener - Homecare fragrance.

SUPPLIER
Company: Procter & Gamble Australia Pty Ltd
Address: Level 4, 1 Innovation Road
          Macquarie Park
          NSW, 2113
          Australia
          Telephone: 1300 661 788
          Emergency Tel: 1800 039 008 (24hrs)

Company: Procter & Gamble Distributing New Zealand
Address: Unit 3, Building I, 5 Orbit Drive
          Rosedale
          North Shore City, 0632
          New Zealand
          Telephone: 0800 658 329
          Telephone: +61 3 9573 3112 (24hrs)
          Fax: +61 2 8664 5319

Section 2 - HAZARDS IDENTIFICATION

STATEMENT OF HAZARDOUS NATURE
DANGEROUS GOODS. NON-HAZARDOUS SUBSTANCE. According to the ADG Code and NOHSC Criteria.

RISK
Risk Codes Risk Phrases
R12 • Extremely flammable.
R44 • Risk of explosion if heated under confinement.

SAFETY
Safety Codes Safety Phrases
S16 • Keep away from sources of ignition. No smoking.
S39 • Wear eye/face protection.
S26 • In case of contact with eyes, rinse with plenty of water and contact Doctor or Poisons Information Centre.
S60 • This material and its container must be disposed of as hazardous waste.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>NAME</th>
<th>CAS RN</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethanol</td>
<td>64-17-5</td>
<td>&lt;10</td>
</tr>
<tr>
<td>perfume</td>
<td></td>
<td>&lt;2</td>
</tr>
<tr>
<td>methanol</td>
<td>67-56-1</td>
<td>&lt;1</td>
</tr>
<tr>
<td>non hazardous ingredients</td>
<td></td>
<td>10-30</td>
</tr>
<tr>
<td>hydrocarbon propellant</td>
<td>68476-85-7</td>
<td>&gt;60</td>
</tr>
</tbody>
</table>

Section 4 - FIRST AID MEASURES

SWALLOWED
• Not considered a normal route of entry.
• Immediately give a glass of water.
• First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

EYE
• If this product comes in contact with eyes:
• Wash out immediately with water.
• If irritation continues, seek medical attention.
• Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Section 4 - FIRST AID MEASURES

SKIN
■ If skin or hair contact occurs:
  • Flush skin and hair with running water (and soap if available).
  • Seek medical attention in event of irritation.

INHALED
■ If aerosols, fumes or combustion products are inhaled:
  • Remove to fresh air.
  • Lay patient down. Keep warm and rested.
  • Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.
  • If breathing is shallow or has stopped, ensure clear airway and apply resuscitation, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.

NOTES TO PHYSICIAN
■ Treat symptomatically.

Section 5 - FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA
■ SMALL FIRE:
  • Water spray, dry chemical or CO2
  • Water spray or fog.

LARGE FIRE:
• Water spray or fog.

FIRE FIGHTING
• Alert Fire Brigade and tell them location and nature of hazard.
• May be violently or explosively reactive.
• Wear breathing apparatus plus protective gloves.
• Prevent, by any means available, spillage from entering drains or water course.
When any large container (including road and rail tankers) is involved in a fire, consider evacuation by 100 metres in all directions.

FIRE/EXPLOSION HAZARD
• Liquid and vapour are flammable.
• Moderate fire hazard when exposed to heat or flame.
• Vapour forms an explosive mixture with air.
• Moderate explosion hazard when exposed to heat or flame.
Decomposes on heating and produces toxic fumes of: carbon dioxide (CO2).

FIRE INCOMPATIBILITY
• Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result.

HAZCHEM
2YE

Personal Protective Equipment
Breathing apparatus.
Gas tight chemical resistant suit.
Limit exposure duration to 1 BA set 30 mins.

Section 6 - ACCIDENTAL RELEASE MEASURES

MINOR SPILLS
• Clean up all spills immediately.
• Avoid breathing vapours and contact with skin and eyes.
• Wear protective clothing, impervious gloves and safety glasses.
• Shut off all possible sources of ignition and increase ventilation.

MAJOR SPILLS
• Clear area of personnel and move upwind.
• Alert Fire Brigade and tell them location and nature of hazard.
• May be violently or explosively reactive.
• Wear breathing apparatus plus protective gloves.

Personal Protective Equipment advice is contained in Section 8 of the MSDS.

Section 7 - HANDLING AND STORAGE

PROCEDURE FOR HANDLING
• Avoid all personal contact, including inhalation.
• Wear protective clothing when risk of exposure occurs.

continued...
Section 7 - HANDLING AND STORAGE

- Use in a well-ventilated area.
- Prevent concentration in hollows and sumps.

SUITABLE CONTAINER
- Aerosol dispenser.
- Check that containers are clearly labelled.

STORAGE INCOMPATIBILITY
- Avoid storage with oxidisers.

STORAGE REQUIREMENTS
- Keep dry to avoid corrosion of cans. Corrosion may result in container perforation and internal pressure may eject contents of can.
- Store in original containers in approved flammable liquid storage area.
- Do NOT store in pits, depressions, basements or areas where vapours may be trapped.
- No smoking, naked lights, heat or ignition sources.
- Keep containers securely sealed. Contents under pressure.

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE CONTROLS

<table>
<thead>
<tr>
<th>Source</th>
<th>Material</th>
<th>TWA ppm</th>
<th>TWA mg/m³</th>
<th>STEL ppm</th>
<th>STEL mg/m³</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia Standards</td>
<td>ethanol (Ethyl alcohol)</td>
<td>1000</td>
<td>1880</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Australia Standards</td>
<td>methanol (Methyl alcohol)</td>
<td>200</td>
<td>262</td>
<td>250</td>
<td>328</td>
<td>Sk</td>
</tr>
<tr>
<td>Australia Standards</td>
<td>hydrocarbon propellant (LPG)</td>
<td>1000</td>
<td>1800</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

PERSONAL PROTECTION

RESPIRATOR
Type AX Filter of sufficient capacity

EYE
- No special equipment for minor exposure i.e. when handling small quantities.
- OTHERWISE: For potentially moderate or heavy exposures:
  - Safety glasses with side shields.
  - NOTE: Contact lenses pose a special hazard; soft lenses may absorb irritants and ALL lenses concentrate them.

HANDS/FEET
- No special equipment needed when handling small quantities.
- OTHERWISE:
  - For potentially moderate exposures:
  - Wear general protective gloves, eg. light weight rubber gloves.

OTHER
- No special equipment needed when handling small quantities.
- OTHERWISE:
  - Overalls.
  - Skin cleansing cream.
  - Eyewash unit.
  - Do not spray on hot surfaces.

ENGINEERING CONTROLS
- General exhaust is adequate under normal operating conditions. If risk of overexposure exists, wear SAA approved respirator.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE
- Supplied as an aerosol pack. Contents under PRESSURE.
- Clear colourless liquid; does not mix with water.

PHYSICAL PROPERTIES
- Liquid.
- Gas.
- Does not mix with water.
- Floats on water.
Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting Range (°C)</td>
<td>Not Available</td>
</tr>
<tr>
<td>Boiling Range (°C)</td>
<td>Not Available</td>
</tr>
<tr>
<td>Flash Point (°C)</td>
<td>- 81 (propellant)</td>
</tr>
<tr>
<td>Decomposition Temp (°C)</td>
<td>Not Available</td>
</tr>
<tr>
<td>Autoignition Temp (°C)</td>
<td>Not Available</td>
</tr>
<tr>
<td>Upper Explosive Limit (%)</td>
<td>Not Available</td>
</tr>
<tr>
<td>Lower Explosive Limit (%)</td>
<td>Not Available</td>
</tr>
<tr>
<td>Volatile Component (%vol)</td>
<td>Not Available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not Available</td>
</tr>
<tr>
<td>Solubility in water (g/L)</td>
<td>Immiscible</td>
</tr>
<tr>
<td>pH (1% solution)</td>
<td>Not Available</td>
</tr>
<tr>
<td>pH (as supplied)</td>
<td>Not Available</td>
</tr>
<tr>
<td>Vapour Pressure (kPa)</td>
<td>Not Available</td>
</tr>
<tr>
<td>Specific Gravity (water=1)</td>
<td>0.8</td>
</tr>
<tr>
<td>Relative Vapour Density (air=1)</td>
<td>Not Available</td>
</tr>
<tr>
<td>Flash Point (°C)</td>
<td>- 81 (propellant)</td>
</tr>
<tr>
<td>Decomposition Temp (°C)</td>
<td>Not Available</td>
</tr>
<tr>
<td>Autoignition Temp (°C)</td>
<td>Not Available</td>
</tr>
<tr>
<td>Upper Explosive Limit (%)</td>
<td>Not Available</td>
</tr>
<tr>
<td>Lower Explosive Limit (%)</td>
<td>Not Available</td>
</tr>
<tr>
<td>Volatile Component (%vol)</td>
<td>Not Available</td>
</tr>
<tr>
<td>Ethanol</td>
<td>log Kow (Sangster 1997): -0.3</td>
</tr>
</tbody>
</table>

Section 10 - CHEMICAL STABILITY AND REACTIVITY INFORMATION

CONDITIONS CONTRIBUTING TO INSTABILITY

- Elevated temperatures.
- Presence of open flame.
- Product is considered stable.

For incompatible materials - refer to Section 7 - Handling and Storage.

Section 11 - TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS

ACUTE HEALTH EFFECTS

- May produce discomfort of the eyes*.
- * (limited evidence).

TOXICITY AND IRRITATION

- unless otherwise specified data extracted from RTECS - Register of Toxic Effects of Chemical Substances.

- Not available. Refer to individual constituents.

ETHANOL:

<table>
<thead>
<tr>
<th>Route</th>
<th>LD50</th>
<th>LDLo</th>
<th>TDL0</th>
<th>EDA</th>
<th>SEV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>7060 mg/kg</td>
<td>1400 mg/kg</td>
<td>50 mg/kg</td>
<td>256 mg/kg</td>
<td>15800 mg/kg</td>
</tr>
<tr>
<td>Inhalation</td>
<td>20, 00 ppm/10h</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td>20 mg/24hr- Moderate</td>
<td>400 mg/24hr- Mild</td>
<td>100mg/24hr- Moderate</td>
<td>500 mg SEVERSE</td>
<td></td>
</tr>
<tr>
<td>Inhalation</td>
<td>100 ppm/10h</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

METHANOL:

<table>
<thead>
<tr>
<th>Route</th>
<th>LD50</th>
<th>LDLo</th>
<th>TDL0</th>
<th>EDA</th>
<th>SEV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>143 mg/kg</td>
<td>6422 mg/kg</td>
<td>3429 mg/kg</td>
<td>5628 mg/kg</td>
<td>640000 ppm/4h</td>
</tr>
<tr>
<td>Inhalation</td>
<td>20 mg/24 h- Moderate</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td>40 mg- Moderate</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inhalation</td>
<td>100 mg/24h- Moderate</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

HYDROCARBON PROPELLANT:

- Not available. Refer to individual constituents.

Section 12 - ECOLOGICAL INFORMATION

This material and its container must be disposed of as hazardous waste.
Section 12 - ECOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Alcohol</th>
<th>Ethanol</th>
<th>Methanol</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toxicology</td>
<td>LOW MED</td>
<td>LOW MED</td>
</tr>
<tr>
<td>irritation</td>
<td>LOW MED</td>
<td>HIGH</td>
</tr>
<tr>
<td>sensitization</td>
<td>LOW</td>
<td>HIGH</td>
</tr>
</tbody>
</table>

Section 13 - DISPOSAL CONSIDERATIONS

- Consult State Land Waste Management Authority for disposal.
- Discharge contents of damaged aerosol cans at an approved site.
- Allow small quantities to evaporate.
- DO NOT incinerate or puncture aerosol cans.

Section 14 - TRANSPORTATION INFORMATION

Labels Required: FLAMMABLE GAS

HAZCHEM:
2YE (ADG7)

ADG7:
- Class or division: 2
- UN No.: 1950
- Special provisions: 63; 190; 277; 327; 344
- Limited quantities: See SP 277

Portable tanks and bulk containers - Special provisions: None
Packagings and IBCs - Special packing provisions: PP17, PP87, L2
Shipping Name: AEROSOLS

Land Transport IMDG:
- Class or division: 2
- UN No.: 1950

Air Transport IATA:
- ICAO/IATA Class: 2.1
- UN/ID Number: 1950
- Special provisions: A145

Maritime Transport IMDG:
- IMDG Class: 2
- UN Number: 1950
- EMS Number: F-D, S-U
- Limited Quantities: See SP277

Section 15 - REGULATORY INFORMATION

POISONS SCHEDULE None

REGULATIONS

Regulations for ingredients

- Ethanol (CAS: 64-17-5) is found on the following regulatory lists:
  - "Australia Exposure Standards"
  - "Australia High Volume Industrial Chemical List (HVICL)"
  - "Australia Illicit Drug Reagents/Essential Chemicals - Category III"
  - "Australia National Pollutant Inventory"
  - "GESAMP/EHS Composite List - GESAMP Hazard Profiles"
  - "IMO IBC Code Chapter 18: List of Other Liquid Substances"
  - "IMO Provisional Categorization of Liquid Substances - List 2: Pollutant only mixtures containing at least 99% by weight of components already assessed by IMO"
methanol (CAS: 67-56-1) is found on the following regulatory lists:
"Australia - New South Wales Hazardous Substances Prohibited for Specific Uses"; "Australia Exposure Standards"; "Australia High Volume Industrial Chemical List (HVICL)"; "Australia National Pollutant Inventory"; "GESAMP/EHS Composite List - GESAMP Hazard Profiles"; "IMO IBC Code Chapter 17: Summary of minimum requirements"; "IMO MARPOL 73/78 (Annex II) - List of Other Liquid Substances"; "International Council of Chemical Associations (ICCA) - High Production Volume List"; "OECD Representative List of High Production Volume (HPV) Chemicals"

hydrocarbon propellant (CAS: 68476-85-7, 68476-86-8) is found on the following regulatory lists:
"Australia Exposure Standards"; "Australia High Volume Industrial Chemical List (HVICL)"; "OECD Representative List of High Production Volume (HPV) Chemicals"

No data for Ambi-Pur Air-Freshener Aerosol Range (CW: 44110)