1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Identification of Substance or Preparation

Trade Name: Dettol Neutra Air

Dettol Neutra Air “Pure Air”
Dettol Neutra Air “Sparkling Waters”
Dettol Neutra Air “Citrus”

Preparation Name: Dettol Neutra Air “Pure Air”
Dettol Neutra Air “Sparkling Waters”
Dettol Neutra Air “Citrus”

Product Format: Aerosol.

1.2 Use of the substance / preparation:
Aerosol spray for disinfection of surfaces.

1.3 Company / Supplier Identification

Reckitt Benckiser UK
Delta Business Park
1200 Welton Road
Swindon
Wiltshire
SN5 7XZ

Tel: +44 (0)8457 697079

1.3.1 Distributor In Republic Of Ireland:

F A Wyatt
Unit 9
Keypoint Business Park
Ballycoolin Road
Blanchards Town
Dublin 11

Tel: +353 (0) 166 173 18
2 Composition

2.1 Chemical Characterisation:
Aerosol sprays with ethanol and water

2.2 Dangerous Ingredients:

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>Index-No.</th>
<th>EEC-No.</th>
<th>Material</th>
<th>wt% - Range</th>
<th>Symbol</th>
<th>R-Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>106-97-8</td>
<td>n.av.</td>
<td>203-448-7</td>
<td>Butane</td>
<td>20 - 30%</td>
<td>F</td>
<td>R 12</td>
</tr>
<tr>
<td>64-17-5</td>
<td>n.av.</td>
<td>200-578-6</td>
<td>Ethanol</td>
<td>55 - 65%</td>
<td>F</td>
<td>R 11</td>
</tr>
</tbody>
</table>

Remarks: Classification and labelling of a product is indicated under item 15, R-phrases in full see section 16.

3 Hazards Identification

3.1 Following 1999/45/EC:
R 12 Extremely flammable.

3.2 For Humans (additional information is given under item 11):
May form explosive vapour-air mixture. Expanding gas may cause frostbite.

3.1.1 Inhalation:
Inhalation of spray/mist/vapour may cause irritation of the respiratory system. Intentional misuse by deliberating inhaling the contents can be harmful or fatal - solvent abuse can kill instantly.

3.1.2 Skin Contact:
May cause irritation of skin.

3.1.3 Eye Contact:
May cause irritation of eyes.

3.1.4 Ingestion:
May cause irritation of the digestive system, nausea and possible vomiting.

3.2 For the Environment:
Raising overall contamination by hydrocarbons.

3.3 For Materials:
Materials should be tested for resistance.

4 First Aid Measures

4.1 Inhalation:
After inhalation of product / fumes of fire leave contaminated area and provide for fresh air. In the event of symptoms occurring, seek medical treatment.

4.2 Skin Contact:
Wash away with plenty of water. In the event of symptoms occurring, seek immediately medical treatment.

4.3 Eye Contact:
Flush eyes out immediately and thoroughly with large amounts of water with eye lids lifted. If irritation persists consult physician.

4.4 Ingestion:
Rinse mouth out and drink plenty of water. Do not induce vomiting. Consult immediately physician and show container or label.

4.5 Note to Physician:
No specific antidotes known. Symptomatic treatment.

4.6 Special Equipment:
n.av.
5 Fire Fighting Measures
5.1 Suitable Extinguishing Media:
Water spray jet, foam, dry chemicals, CO2.
5.2 Extinguishing Media to Avoid:
None.
5.3 Fire and Explosion Hazards:
In case of fire, product may form: organic crack products and carbon oxides, inorganic dust.
In case of fire, aerosol container can burst if exposed to high temperatures.
Bursting leads to release of the extremely flammable propellant gas (butane) and flying around containers.
Fires involving aerosols with flammable contents are severe and can spread very quickly.
5.4 Additional Information:
Cool containers at risk with water spray jet.
5.5 Special Protective Equipment:
Wear positive pressure self-contained breathing apparatus.
Wear full protective clothing.

6 Accidental Release Measures
6.1 Personal Precautions:
See No. 8.3 Personal Protective Equipment. Provide sufficient ventilation. Keep away from all sources of ignition.
6.2 Environmental Precautions and Methods for Cleaning up:
Do not allow larger quantities to enter drainage. Do not contaminate watercourses or ground. Inform responsible authorities after accidental conduction of larger quantities and seek their advice on disposal.
Soak up with absorbent material (sand, earth, sawdust or other inert material) and transfer to suitable container for subsequent disposal. Flush away residues with water.
6.3 Further Information:
Damaged or leaking aerosol containers should be placed in a well ventilated area away from all sources of ignition.

7 Handling and Storage (For national regulations refer to item 15.2)
7.1 Handling
7.1.1 Precautions for Safe Handling:
Use only as directed.
Do not spray on a naked flame, onto or near a fire, or any incandescent material such as an electric fire.
Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.
Do not use in restricted areas, especially where there is likely to be a source of ignition.
7.1.2 Precautions in Case of Fire and Explosion:
Keep away from sources of ignition, do not smoke. Vapours may form an explosive mixture with air.
7.2 Storage
7.2.1 Storage Instructions:
Store in a cool, dry, well-ventilated and frost free place.
Keep out of reach of children.
Store away from sources of ignition - No smoking.
7.2.2 Store away from:
Store away from explosive substances and products. Oxidizers.
7.2.3 Further Information on Storage Conditions:
Provide sufficient ventilation. Protect from sunlight. Protect from warming up / overheating.
Do not expose to temperatures exceeding 50°C. Extremes of temperatures can occur in motor cars, near ovens and fireplaces. Do not place in contact with hot surfaces or near naked flames.
Warehouses and stores containing aerosols should be separated from other areas by fire-resistant construction of at least one hour duration. Stores should be well ventilated, particularly at low levels. Avoid the storage of aerosols in basements wherever practical.

8 Exposure Controls and Personal Protection
8.1 Information on System Design:
Provide for sufficient exhaustion. Provide personal protective equipment.

8.2 Exposure Limits:

8.2.1 Material Limit Value:
Propane / Butane MAK 1000 ppm
430 mg/m³ (UK Document EH 40, long term exposure, 8 h Time Weighted Average)
1780 mg/m³ (UK Document EH 40, short term exposure limit, 15 min)

8.3 Personal Protective Equipment

8.3.1 General Protection and Hygiene:
Avoid contact with eyes and skin. Do not eat, drink or smoke during work. Take off contaminated, saturated clothing immediately. Do not inhale vapours.

8.3.2 Respiratory Protection:
None necessary if ventilation is sufficient.

8.3.3 Hand Protection:
Suitable gloves (rubber e.g.) necessary if prolonged exposure is likely.

8.3.4 Eye Protection:
Suitable goggles if prolonged exposure is likely.

8.3.5 Skin Protection:
Light protective clothing.

8.3.6 Further Information:
Refer to special restrictions in wearing protective equipment.

9 Physical and Chemical Properties

9.1 Appearance

9.1.1 Form:
Aerosol Spray

9.1.2 Colour:
Colourless

9.1.3 Odour:
Perfumed

9.2 Safety Relevant Data (Concentrate)

9.2.1 pH-value, undiluted liquid: 6.5 - 9.5

9.2.2 Boiling point / Boiling - range (°C) : n.ap.

9.2.3 Flash point (°C, c.c.) : n.av.

9.2.4 Flammability (EEC A10/A13) : n.av.

9.2.5 Ignition temperature (°C) : n.av.

9.2.6 Auto flammability (EEC A16) : n.av.

9.2.7 Oxidising properties : n.ap.

9.2.8 Explosion hazard : n.av.

9.2.9 Explosion limits (Vol.%) lower : n.av.

9.2.10 Vapour pressure : n.av.

9.2.11 Density filled product (g/ml) : 0.7635 - 0.7655

9.2.12 Solubility (in Water) : 100%

9.2.13 Partition coefficient, n-Octanol/Water : n.ap.

9.2.14 Viscosity : waterlike

9.2.15 Solvent separation test : n.ap.

9.2.16 Solvent content (m %) : 55 - 65%

9.3 Further Data

9.3.1 Internal pressure at 20°C (bar): 2.8 - 3.5 (Neutra Air, Assainissant)

9.3.2 Vapour density (Air = 1) : n.ap.

9.3.3 Evaporation rate : n.ap.

10 Stability and Reactivity

10.1 Conditions to Avoid:
Protect from sunlight and do not expose to temperatures exceeding 50°C. Extremes of temperatures can occur in motor cars, near ovens and fireplaces.
Do not place in contact with hot surfaces or near naked flames.
Do not pierce or burn even after use. Do not spray on a naked flame, onto or near a fire,
or any incandescent material such as an electric fire. Keep away from sources of ignition - No smoking.

10.2 **Materials to Avoid:**
Contact with oxidizers may lead to strong reactions. Do not mix with other household chemicals.

10.3 **Hazardous Decomposition Products:**
No dangerous decomposition products when properly handled.

10.4 **Further Information:**
Protect from freezing.

11 **Toxicological Information**

11.1 **Toxicological Tests:**

11.1.1 **Acute Health Effects:**
- Inhalation, LC50 rat, (mg/l/4h) : n.av.
- Ingestion, LD50 rat, (mg/kg) : n.av.
- Skin - contact, LD50 rat, (mg/kg) : n.av.
- Irritation (to skin / eye) : Skin and eye irritation are possible.
- Sensitisation : Allergic reactions and sensitization are possible.

11.1.2 **Subacute / Chronic Toxicity:**
- Carcinogenicity : None.
- Mutagenicity : None.
- Teratogenicity : None.
- Narcotic Effects : Inhalation of solvent-vapours in high concentration causes narcotic effects.

11.2 **Practical Experience**

11.2.1 **Observations relevant for classification:**
None.

11.2.2 **Further Observations:**
Inhalation possible cause headache / nausea.

11.3 **General Remarks:**
The product has not been tested. The information is derived from products with comparable properties.

12 **Ecological Information**

12.1 **Ecotoxic Effects, Aquatic Toxicity:**
n.av.

12.2 **Behaviour in Sewage Works:**
Mobility and Accumulation Potential : n.av.

12.3 **Elimination (Persistence and Degradability):**
n.av.

12.4 **Other Ecological Information**

12.4.1 COD-Value, mg/g : n.av.
12.4.2 BOD5-Value, mg/g : n.av.
12.4.3 AOX-Remarks : n.ap.
12.4.4 Significant Components : None.
12.4.5 Other adverse effects : None.
This product causes no known adverse effects to the environment.
This product contains between 20 - 30% w/w of butane which is a volatile gas. If released to air, it will disperse rapidly. Photochemical degradation in air will proceed at a moderate rate. This is considered by the United Nations as "less important" in the formation of episodic ozone.

12.4.6 **Other adverse effects:**

13 **Disposal Considerations (For national Regulations refer to item 15.)**

13.1 **Consumer Instructions**
The emptied aerosol containers can be disposed of by consumers in the normal household waste stream. Do not pierce or burn even after use. Protect from sunlight and do not expose to temperature exceeding 50°C.

13.2 **Bulk Quantities (Unsold Stock)**
Dispose of in accordance with local, regional or national requirements. For further information contact your local waste authority.

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14 Transport Information

14.1 General Statement
UN Number UN 1950
Proper shipping name UN 1950 AEROSOLS

14.2 ADR 2003
Dangerous goods description for transport document UN 1950 AEROSOLS, 2.1, -
Class 2
Label 2.1
Classification code 5F
Packaging group -
Hazard identification number n.a.
Special provisions 190, 625
Exemptions Limited Quantity LQ 2

14.3 IMDG 31
Dangerous goods description for transport document UN 1950 AEROSOLS, Class 2, -
Class 2
Label 2.1
Packaging group -
Special provisions 63, 190, 191, 277, 913
EmS F-D, S-U
Exemptions Limited Quantity 1L

15 Regulatory Information

15.1 Classification according to EC-Regulations :
Classification required by EC : Yes.
Applicable Exemptions : No.
Hazard Identification : Extremely flammable
Hazard Symbol(s) :

R-Phrases :
R 12: Extremely flammable.

S-Phrases :
S 2 Keep out of the reach of children.
S 23 Do not breathe aerosol.
S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S 46 If swallowed, seek medical advice immediately and show this container or label.
S 51 Use only in well-ventilated areas.

Additional Markings :
Caution: Use only as directed. Pressurised container. Protect from sunlight and do not expose to
temperatures exceeding 50°C. Extremes of temperature can occur in motorcars, near oven and
fireplaces. Keep away from hot surfaces, naked flames and sources of ignition - No smoking. Do not
spray on a naked flame or any incandescent material, such as an electrical fire. Do not pierce or burn
even after use.

15.1.1 The above mentioned labelling is valid for distribution to private consumer.
Labelling (formats, exemptions, additional markings) has to be done according to respective regulations.

15.2 National Regulations
VOC-Content: 75 - 95%
16 Other Information
Risk-Phrases
R 11: Highly flammable.
R 12: Extremely flammable.

This Material Safety Data Sheet relates to 2001/58/EC and TRGS 220.
The statements in this Material Safety Data Sheet were made to the best of our knowledge and are as accurate as possible.
They are given for information only. They do not constitute a contractual guarantee of a product's properties.
They must neither be altered nor transferred to other products.
Prepared by: Reckitt Benckiser Produktions GmbH, Benckiserplatz 1, D-67059 Ludwigshafen/Rh., Germany, Tel.: +49 621 59 146 0

Date PSDS Created: 10/01/06
Version Number: 2
Revision Date: 09/02/06
Revision Reason: Sparkling Waters / Citrus variants added
Product Use (section 1.2) Changed.