SAFETY DATA SHEET
Braun Clean & Renew Refill Cartridges (Isopropanol)

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier
Product name Braun Clean & Renew Refill Cartridges (Isopropanol)
Product No. 98726848
REACH Registration notes This SDS is written according to the requirements stated in REACH Regulation (EC) No 1907/2006 (in particular as amended by Regulation (EU) No. 453/2010 with respect to SDSs)

1.2. Relevant identified uses of the substance or mixture and uses advised against
Identified uses Cleaning agent.
Uses advised against No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet
Supplier Braun GmbH
Frankfurter Straße 145
61476 Kronberg im Taunus
Germany
Contact Person E-mail: pgsds.im@pg.com

1.4. Emergency telephone number
National Chemical Emergency Centre: +44 (0) 3700 492 795

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture
Human health
Irritating to eyes. Vapours may cause drowsiness and dizziness.
Environment
The product contains a substance which is harmful to aquatic organisms and which may cause long term adverse effects in the aquatic environment.
Physical and Chemical Hazards
Heating will generate vapours which may form explosive vapour/air mixtures.

2.2. Label elements

Labelling

Irritant

Highly flammable

Risk Phrases
R11 Highly flammable
R36 Irritating to eyes.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R67 Vapours may cause drowsiness and dizziness.

Safety Phrases
S9 Keep container in a well-ventilated place.
S16 Keep away from sources of ignition - No smoking.
S25 Avoid contact with eyes.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S51 Use only in well-ventilated areas.
2.3. Other hazards

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2. Mixtures

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Percentage</th>
<th>CAS-No.:</th>
<th>EC No.:</th>
</tr>
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<tbody>
<tr>
<td>ISOPROPYL ALCOHOL</td>
<td>60-100%</td>
<td>67-63-0</td>
<td></td>
</tr>
<tr>
<td>PROPAAN-1-OL</td>
<td>&lt;= 5%</td>
<td>71-23-8</td>
<td>200-746-9</td>
</tr>
<tr>
<td>LIMONENE</td>
<td>&lt;1%</td>
<td>138-86-3</td>
<td>205-341-0</td>
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</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification (EC 1272/2008)</th>
<th>Classification (67/548/EEC)</th>
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<tbody>
<tr>
<td></td>
<td>Flam. Liq. 2 - H225</td>
<td>Xi;R36.</td>
</tr>
<tr>
<td></td>
<td>Eye Irrit. 2 - H319</td>
<td>F;R11.</td>
</tr>
<tr>
<td></td>
<td>STOT SE 3 - H336</td>
<td>R67.</td>
</tr>
<tr>
<td></td>
<td>Classification (EC 1272/2008)</td>
<td>Classification (67/548/EEC)</td>
</tr>
<tr>
<td></td>
<td>Flam. Liq. 2 - H225</td>
<td>F;R11.</td>
</tr>
<tr>
<td></td>
<td>Eye Dam. 1 - H318</td>
<td>Xi;R41.</td>
</tr>
<tr>
<td></td>
<td>STOT SE 3 - H336</td>
<td>R67.</td>
</tr>
<tr>
<td></td>
<td>Classification (EC 1272/2008)</td>
<td>Classification (67/548/EEC)</td>
</tr>
<tr>
<td></td>
<td>Flam. Liq. 3 - H226</td>
<td>R10</td>
</tr>
<tr>
<td></td>
<td>Skin Irrt. 2 - H315</td>
<td>R43</td>
</tr>
<tr>
<td></td>
<td>Skin Sens. 1 - H317</td>
<td>Xi;R38</td>
</tr>
<tr>
<td></td>
<td>Aquatic Acute 1 - H400</td>
<td>N;R50/53</td>
</tr>
<tr>
<td></td>
<td>Aquatic Chronic 1 - H410</td>
<td></td>
</tr>
</tbody>
</table>

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

**REACH Registration notes**
This SDS is written according to the requirements stated in REACH Regulation (EC) No 1907/2006 (in particular as amended by Regulation (EU) No. 453/2010 with respect to SDSs)

**Composition Comments**
The data shown are in accordance with the latest EC Directives.

### SECTION 4: FIRST AID MEASURES

#### 4.1. Description of first aid measures

**Inhalation**
Fresh air. Rinse nose and mouth with water. Get medical attention if any discomfort continues.

**Ingestion**
Immediately rinse mouth and drink plenty of water. Keep person under observation. If person becomes uncomfortable seek hospital and bring these instructions. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs.

**Skin contact**
Rinse with water. Get medical attention if any discomfort continues. Remove contaminated clothing.

**Eye contact**
Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Rinse with water. Contact physician if discomfort continues.
4.2. Most important symptoms and effects, both acute and delayed

Inhalation.
No specific symptoms noted.

Ingestion
No specific symptoms noted.

Skin contact
No specific symptoms noted.

Eye contact
No specific symptoms noted.

4.3. Indication of any immediate medical attention and special treatment needed

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media
Foam. Powder. Water spray, fog or mist. Carbon dioxide (CO2).

Unsuitable extinguishing media
Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Unusual Fire & Explosion Hazards
HIGHLY FLAMMABLE!

Specific hazards
In case of fire, toxic gases may be formed (COx, NOx).

5.3. Advice for firefighters

Special Fire Fighting Procedures
Keep run-off water out of sewers and water sources. Dike for water control. Water spray should be used to cool containers.

Protective equipment for fire-fighters
Self contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet. Do not smoke, use open fire or other sources of ignition.
In case of inadequate ventilation, use respiratory protection.

6.2. Environmental precautions

Do not allow to enter drains, sewers or watercourses. The product should not be dumped in nature but collected and delivered according to agreement with the local authorities.

6.3. Methods and material for containment and cleaning up

Absorb spillage with non-combustible, absorbent material. Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labelled container. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate.

6.4. Reference to other sections

For personal protection, see section 8.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Provide good ventilation. Do not eat, drink or smoke when using the product. Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks and open flame. Store in tightly closed original container in a dry, cool and well-ventilated place. Take precautionary measures against static discharges. Avoid contact with oxidising agents.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

Usage Description
Intermediate
SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

<table>
<thead>
<tr>
<th>Name</th>
<th>STD</th>
<th>TWA - 8 Hrs</th>
<th>STEL - 15 Min</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>PROPAN-1-OL</td>
<td>WEL</td>
<td>200 ppm(Sk)</td>
<td>500 mg/m3(Sk)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>250 ppm(Sk)</td>
<td>625 mg/m3(Sk)</td>
</tr>
</tbody>
</table>

WEL = Workplace Exposure Limit.

8.2. Exposure controls

Protective equipment

Process conditions

Use engineering controls to reduce air contamination to permissible exposure level. Provide eyewash station.

Engineering measures

Provide adequate general and local exhaust ventilation.

Respiratory equipment

Use respiratory equipment with combination filter, type B+E/P3.

Hand protection

For prolonged or repeated skin contact use suitable protective gloves. Nitrile gloves are recommended, but be aware that the liquid may penetrate the gloves. Frequent change is advisable.

Eye protection

Use eye protection. Wear tight-fitting goggles or face shield.

Other Protection

Provide eyewash station.

Hygiene measures

Wash hands after handling. Use appropriate skin cream to prevent drying of skin. Wash promptly if skin becomes contaminated. Change work clothing daily if there is any possibility of contamination. When using do not eat, drink or smoke.

Skin protection

Wear apron or protective clothing in case of contact.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>Colourless.</td>
</tr>
<tr>
<td>Odour</td>
<td>Odour of alcohol.</td>
</tr>
<tr>
<td>Solubility</td>
<td>Insoluble in water</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>78</td>
</tr>
<tr>
<td>Relative density</td>
<td>0.794 g/cm3 20</td>
</tr>
<tr>
<td>Flash point</td>
<td>12 CC (Closed cup)</td>
</tr>
<tr>
<td>Flammability Limit - Lower(%)</td>
<td>2</td>
</tr>
<tr>
<td>Flammability Limit - Upper(%)</td>
<td>12</td>
</tr>
</tbody>
</table>

9.2. Other information

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No specific reactivity hazards associated with this product.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.
10.3. Possibility of hazardous reactions

Not applicable.
Hazardous Polymerisation
Will not polymerise.

10.4. Conditions to avoid

Avoid heat, flames and other sources of ignition. Avoid contact with oxidisers or reducing agents.

10.5. Incompatible materials

Materials To Avoid
Strong oxidising substances. Strong reducing agents.

10.6. Hazardous decomposition products

In case of fire, toxic gases (CO, CO2, NOx) may be formed.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Inhalation
Vapours may cause drowsiness and dizziness.

Ingestion
No specific health warnings noted.

Skin contact
No specific health warnings noted.

Eye contact
Irritating to eyes.

Route of entry
Inhalation. Ingestion. Skin and/or eye contact.

Target Organs
Respiratory system, lungs Gastro-intestinal tract Skin Eyes

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity
The product contains a substance which is harmful to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

12.1. Toxicity

Acute Fish Toxicity
Not considered toxic to fish.

12.2. Persistence and degradability

Degradability
There are no data on the degradability of this product.

12.3. Bioaccumulative potential

Bioaccumulative potential
No data available on bioaccumulation.

12.4. Mobility in soil

Mobility:
Not considered mobile.
12.5. Results of PBT and vPvB assessment

Not Classified as PBT/vPvB by current EU criteria.

12.6. Other adverse effects

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

General information

Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority.

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

UN No. (ADR/RID/ADN) 1219
UN No. (IMDG) 1219
UN No. (ICAO) 1219

14.2. UN proper shipping name

Proper Shipping Name ISOPROPAANOL (ISOPROPYL ALCOHOL)

14.3. Transport hazard class(es)

ADR/RID/ADN Class 3
ADR/RID/ADN Class Class 3: Flammable liquids.
ADR Label No. 3
IMDG Class 3
ICAO Class/Division 3
Transport Labels

14.4. Packing group

ADR/RID/ADN Packing group II
IMDG Packing group II
ICAO Packing group II

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant No.

14.6. Special precautions for user

EMS F-E, S-D
Emergency Action Code •2YE
Hazard No. (ADR) 33
**Braun Clean & Renew Refill Cartridges (Isopropanol)**

Tunnel Restriction Code

(D/E)

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

### SECTION 15: REGULATORY INFORMATION

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

Statutory Instruments


Approved Code Of Practice

Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply.

Guidance Notes

CHIP for everyone HSG(108). Introduction to Local Exhaust Ventilation HS(G)37. Workplace Exposure Limits EH40.

EU Legislation


National Regulations


Health and Safety at Work Act (As Amended) 1974

**15.2. Chemical Safety Assessment**

### SECTION 16: OTHER INFORMATION

Information Sources

Chemical manufacturers Safety Data Sheets

Revision Comments

This is first issue.

Issued By Procter & Gamble - European SDS Service

SDS No. 36696

Safety Data Sheet Status Approved.

Date 19-Apr-2013

Signature Lee Collis

Risk Phrases In Full

- **R10** Flammable.
- **R52/53** Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **R11** Highly flammable
- **R36** Irritating to eyes.
- **R38** Irritating to skin.
- **R43** May cause sensitisation by skin contact.
- **R41** Risk of serious damage to eyes.
- **R67** Vapours may cause drowsiness and dizziness.
- **R50/53** Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Hazard Statements In Full

- **H318** Causes serious eye damage.
- **H319** Causes serious eye irritation.
- **H315** Causes skin irritation.
- **H226** Flammable liquid and vapour.
- **H412** Harmful to aquatic life with long lasting effects.
- **H225** Highly flammable liquid and vapour.
- **H317** May cause an allergic skin reaction.
- **H336** May cause drowsiness or dizziness.
- **H410** Very toxic to aquatic life with long lasting effects.
- **H400** Very toxic to aquatic life.
Braun Clean & Renew Refill Cartridges (Isopropanol)

Disclaimer

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.