MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

| Product Name | Professional EASY-OFF® - Glass Cleaner Concentrate Use-dilution 1:10 (13 oz./gal.) |
| UPC CODES | Refer to Section 16 |
| CAS # | Mixture |
| Product use | Cleaner |
| Distributed by | Reckitt Benckiser |
| Morris Corporate Center IV |
| 399 Interpace Parkway |
| P.O. Box 225 |
| Parsippany, NJ 07054-0225 |
| In Case of Emergency: 1-800-228-4722 |
| Transportation Emergencies: 24 Hour Number: |
| North America: CHEMTREC: 1-800-424-9300 |
| Outside North America: 1-703-527-3887 |

| LEGEND HMIS/NFPA |
| Health / 1 |
| Flammability 2 |
| Physical Hazard 0 |
| Personal Protection A |

2. Hazards Identification

Emergency overview

CAUTION

COMBUSTIBLE

Keep away from heat, sparks or flame. Avoid contact with eyes and skin.

KEEP OUT OF REACH OF CHILDREN.

Potential short term health effects

Routes of exposure

Eye, Skin contact, Ingestion.

Eyes

None expected during normal conditions of use.

May cause eye irritation upon direct contact with eyes.

Skin

None expected during normal conditions of use.

Not expected to be a skin sensitizer.

Inhalation

None expected during normal conditions of use.

Ingestion

Health injuries are not known or expected under normal use.

Target organs

Eyes. Respiratory system. Skin.

Chronic effects

The finished product is not expected to have chronic health effects.

Signs and symptoms

Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Propanol, 1-butoxy-</td>
<td>5131-66-8</td>
<td>2.5 - 10</td>
</tr>
<tr>
<td>Ethanol</td>
<td>64-17-5</td>
<td>10 - 20</td>
</tr>
</tbody>
</table>

4. First Aid Measures

First aid procedures

Eye contact

In case of eye contact, IMMEDIATELY flush eyes thoroughly with water, remove any contact lenses and continue to flush eyes with plenty of water for at least 15 minutes. If irritation persists, get medical attention.
5. Fire Fighting Measures

**Flammable properties**
Combustible by OSHA criteria.

**Extinguishing media**
Suitable extinguishing media: Treat for surrounding material.
Unsuitable extinguishing media: Not available

**Protection of firefighters**
Specific hazards arising from the chemical: Not available
Protective equipment for firefighters: Firefighters should wear full protective clothing including self contained breathing apparatus.

**Hazardous combustion products**
May include and are not limited to: Oxides of carbon.

**Explosion data**
Sensitivity to mechanical impact: Not available
Sensitivity to static discharge: Not available

6. Accidental Release Measures

**Personal precautions**
Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.

**Methods for containment**
Prevent entry into waterways, sewers, basements or confined areas.

**Methods for cleaning up**
Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice.

7. Handling and Storage

**Handling**
CAUTION
COMBUSTIBLE
Keep away from heat, sparks and open flame. Avoid contact with eyes and skin. This product is not recommended for use on finished wood surfaces.

**Storage**
Keep out of reach of children. Store in original container in a cool, secure area inaccessible to children and pets. Keep from freezing.

8. Exposure Controls / Personal Protection

**Exposure limits**

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>ACGIH-TLV</th>
<th>OSHA-PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Propanol, 1-butoxy-</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td>Ethanol</td>
<td>ACGIH-TLV</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TWA: 1000 ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>STEL: 1000 ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>OSHA-PEL</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TWA: 1000 ppm</td>
<td></td>
</tr>
</tbody>
</table>
Engineering controls
No special ventilation requirements.

Personal protective equipment

Eye / face protection
Avoid contact with eyes.
If splashing is likely to occur or for occupational exposures, wear appropriate eye protection.
Emergency responders should wear full eye and face protection.

Hand protection
Avoid contact with the skin. Protective gloves are recommended for prolonged or repeated exposure.
Emergency responders should wear impermeable gloves.

Skin and body protection
Usual safety precautions while handling the product will provide adequate protection against injury or irritation. Follow label directions carefully.
Emergency responders should wear impermeable clothing and footwear when responding to a situation where contact with the liquid is possible.

Respiratory protection
Not normally required under normal use conditions.

General hygiene considerations
Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink.
Washing with soap and water after use is recommended as good hygienic practice to prevent possible eye irritation from hand contact.

9. 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>Color</td>
<td>Blue</td>
</tr>
<tr>
<td>Form</td>
<td>Liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>pH</td>
<td>9.9</td>
</tr>
<tr>
<td>Freezing point</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>Not available</td>
</tr>
<tr>
<td>Pour point</td>
<td>Not available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash point</td>
<td>107 °F (41.66 °C) Tag Closed Cup</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability limits in air, lower, % by volume</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability limits in air, upper, % by volume</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not available</td>
</tr>
<tr>
<td>Specific gravity</td>
<td>0.98 (Water = 1)</td>
</tr>
<tr>
<td>Octanol/water coefficient</td>
<td>Not available</td>
</tr>
<tr>
<td>Solubility (H2O)</td>
<td>Complete</td>
</tr>
</tbody>
</table>

10. Stability and Reactivity

Chemical stability
Stable under recommended storage conditions.

Conditions to avoid
DO NOT MIX WITH BLEACH or use in conjunction with other household products.
Keep away from open flames, hot surfaces and sources of ignition.

Incompatible materials
Acids. Caustics.

Hazardous decomposition products
May include and are not limited to: Oxides of carbon.

Possibility of hazardous reactions
Hazardous polymerization does not occur.

11. Toxicological Information

Component analysis - LC50

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Propanol, 1-butoxy-</td>
<td>Not available</td>
</tr>
<tr>
<td>Ethanol</td>
<td>31623 ppm rat</td>
</tr>
</tbody>
</table>
Component analysis - Oral LD50

**Ingredient(s)**

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>LD50</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Propanol, 1-butoxy-</td>
<td>3300 mg/kg rat</td>
</tr>
<tr>
<td>Ethanol</td>
<td>3450 mg/kg mouse; 7060 mg/kg rat</td>
</tr>
</tbody>
</table>

**Effects of acute exposure**

- **Eye**: None expected during normal conditions of use. May cause eye irritation upon direct contact with eyes.
- **Skin**: None expected during normal conditions of use. Not expected to be a skin sensitizer.
- **Inhalation**: None expected during normal conditions of use.
- **Ingestion**: Health injuries are not known or expected under normal use.
- **Sensitization**: The finished product is not expected to have chronic health effects.
- **Chronic effects**: The finished product is not expected to have chronic health effects.
- **Carcinogenicity**: The finished product is not expected to have chronic health effects.

**ACGIH - Threshold Limit Values - Carcinogens**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Threshold Limit Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>64-17-5 A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans</td>
</tr>
</tbody>
</table>

**Mutagenicity**: The finished product is not expected to have chronic health effects.

**Reproductive effects**: The finished product is not expected to have chronic health effects.

**Teratogenicity**: The finished product is not expected to have chronic health effects.

**Synergistic Materials**: Not available

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### 12. Ecological Information

**Ecotoxicity**: Bulk quantities, if spilled, may be toxic to aquatic organisms, fish, birds and mammals. Control and clean up all exterior spills and prevent liquid from entering any streams, rivers, lakes and all other bodies of water.

**Ecotoxicity - Freshwater Fish Species Data**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Threshold Limit Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>64-17-5</td>
</tr>
<tr>
<td></td>
<td>96 Hr LC50 Oncorhynchus mykiss: 12.0-16.0 ml/L [static]; 96 Hr LC50 Pimephales promelas: &gt;100 mg/L [static]; 96 Hr LC50 Pimephales promelas: 13400-15100 mg/L [flow-through]</td>
</tr>
</tbody>
</table>

**Ecotoxicity - Water Flea Data**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Threshold Limit Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>64-17-5</td>
</tr>
<tr>
<td></td>
<td>48 Hr LC50 Daphnia magna: 9268 - 14221 mg/L; 24 Hr EC50 Daphnia magna: 10800 mg/L; 48 Hr EC50 Daphnia magna: 2 mg/L [Static]</td>
</tr>
</tbody>
</table>

**Environmental effects**: Not available

**Aquatic toxicity**: Not available

**Persistence / degradability**: Not available

**Bioaccumulation / accumulation**: Not available

**Partition coefficient**: Not available

**Mobility in environmental media**: Not available

**Chemical fate information**: Not available

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### 13. Disposal Considerations

**Waste codes**: Not available

**Disposal instructions**: Dispose in accordance with all applicable regulations.

**Waste from residues / unused products**: Not available

**Contaminated packaging**: Not available
14. Transport Information

**U.S. Department of Transportation (DOT)**

Not regulated - See 49 CFR - § 173.150 (f)

**Transportation of Dangerous Goods (TDG - Canada)**

Not Regulated - See TDG Part 1.33

**IMDG (Marine Transport)**

UN 1993, Flammable liquids, n.o.s. (ethanol, butoxypropanol), 3, III, Limited Quantity.

**IATA/ICAO (Air)**

UN 1993, Flammable liquids, n.o.s. (ethanol, butoxypropanol), 3, III
15. Regulatory Information

**US Federal regulations**
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Product Registration:  Product is compliant with CPSC regulatory guidelines; a specific registration is not required for this product.

**Occupational Safety and Health Administration (OSHA)**
29 CFR 1910.1200 hazardous chemical
Yes

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

<table>
<thead>
<tr>
<th>Hazard categories</th>
<th>Immediate Hazard</th>
<th>Delayed Hazard</th>
<th>Fire Hazard</th>
<th>Pressure Hazard</th>
<th>Reactivity Hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

**Section 302 extremely hazardous substance**
No

**Section 311 hazardous chemical**
Yes

**Clean Air Act (CAA)**
Not available

**Clean Water Act (CWA)**
Not available

**State regulations**
This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

### U.S. - Massachusetts - Right To Know List
- Ethanol 64-17-5 Teratogen

### U.S. - Minnesota - Hazardous Substance List
- Ethanol 64-17-5 Present

### U.S. - New Jersey - Right to Know Hazardous Substance List
- Ethanol 64-17-5 sn 0844

### U.S. - Pennsylvania - RTK (Right to Know) List
- Ethanol 64-17-5 Present

### U.S. - Rhode Island - Hazardous Substance List
- Ethanol 64-17-5 Toxic; Flammable

**Inventory status**

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s).

16. Other Information

**Disclaimer**
This product should only be used as directed on the label and for the purpose intended. To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

**Further information**
36241-75116-6 - Professional EASY-OFF® - Glass Cleaner Concentrate Use-dilution 1:10 (13 oz/gal.) - 1 gal. - 355047

**Issue date**
30-Jul-2010

**Effective date**
31-Jul-2010

**Prepared by**
Reckitt Benckiser Regulatory Department  800-333-3899

**Other information**
For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.