1. Product and Company Identification

Product Name: Professional EASY-OFF® Fume Free Oven Cleaner - Aerosol

CAS #: Mixture

This MSDS is designed for workplace employees, emergency personnel and for other conditions and situations where there is a greater potential for large-scale or prolonged exposure, in accordance with requirements of the U.S. Government's Occupational Safety and Health Administration (OSHA).

This MSDS is not applicable for consumer use of our products. For consumer use, all precautionary and first aid language is provided on the product label in accordance with the applicable government regulation.

Product Use: Oven cleaner

Distributed by Reckitt Benckiser
Morris Corporate Center IV
399 Interpace Parkway
P.O. Box 225
Parsippany, NJ 07054-0225
In Case of Emergency: 1-800-338-6167
Transportation Emergencies: 24 Hour Number:
North America: CHEMTREC: 1-800-424-9300
Outside North America: 1-703-527-3887

2. Hazards Identification

Emergency overview
CAUTION:
EYE IRRITANT.
Contents under pressure.
DO NOT get in eyes.
Wash hands after application and removal.
Do not puncture or incinerate container.
DO NOT expose to heat or store at temperatures above 120°F (49°C).
KEEP OUT OF REACH OF CHILDREN.

Potential short term health effects
Routes of exposure
Eye, Skin contact, Inhalation, Ingestion.

Eyes
Moderately irritating to the eyes.

Skin
None expected during normal conditions of use.

Inhalation
Exposure to decomposition products may cause a health hazard.
Serious effects may be delayed following exposure.

Ingestion
Health injuries are not known or expected under normal use.

Target organs

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

Signs and symptoms
irritation

OSHA Regulatory Status
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Potential environmental effects
See section 12.
3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium carbonate</td>
<td>584-08-7</td>
<td>2.5 - 10</td>
</tr>
<tr>
<td>Diethylene glycol monobutyl ether</td>
<td>112-34-5</td>
<td>2.5 - 10</td>
</tr>
<tr>
<td>Isobutane</td>
<td>75-28-5</td>
<td>2.5 - 10</td>
</tr>
<tr>
<td>Monoethanolamine</td>
<td>141-43-5</td>
<td>2.5 - 10</td>
</tr>
</tbody>
</table>

4. First Aid Measures

First aid procedures

**Eye contact**
If in eyes, IMMEDIATELY rinse eyes with water, remove any contact lenses and continue rinsing eyes for at least 15 minutes. If irritation persists, get medical attention.

**Skin contact**
In case of skin contact, immediately flush exposed area with plenty of water for at least 15 minutes.
Remove any contaminated clothing and wash thoroughly with soap and water.
Get immediate medical attention if irritation persists.

**Inhalation**
Remove any contaminated clothing and wash thoroughly with soap and water.
Get immediate medical attention if irritation persists.

**Ingestion**
If swallowed, DO NOT induce vomiting, call a Poison Control Center or physician immediately. Rinse mouth out with water.

**Notes to physician**
Treat patient symptomatically.

**General advice**
Do not puncture or incinerate container. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep away from sources of ignition. No smoking. Keep out of reach of children.

5. Fire Fighting Measures

**Flammable properties**
Aerosol flame extension less than 18 inches (45 cm).

NFPA AEROSOL LEVEL: Flammability Rating 1, per NFPA 30B

**Extinguishing media**
Suitable extinguishing media
Treat for surrounding material.

Unsuitable extinguishing media
Not available

**Protection of firefighters**
Contents under pressure. Pressurized container may explode when exposed to heat or flame. Cool containers with flooding quantities of water until well after fire is out.

Firefighters should wear full protective clothing including self contained breathing apparatus.

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

**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.

**Environmental precautions**
Do not discharge into lakes, streams, ponds or public waters.
Advise authorities if product has penetrated drains, sewers or water pipes.

**Methods for containment**
Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.
Methods for cleaning up

Before attempting clean up, refer to hazard data given above. Remove sources of ignition. Although the chance of a significant spill or leak is unlikely in aerosol containers, in the event of such an occurrence, absorb spilled material with a non-flammable absorbent such as sand or vermiculite.

7. Handling and Storage

Handling

Ensure adequate ventilation.
Contents under pressure.
Do not puncture or incinerate container.
Use according to package label instructions.
Avoid contact with eyes. Do not breathe fumes.
Be sure to point arrow towards directions dot and away from face.
Keep away from open flames, hot surfaces and sources of ignition.
Wash hands after handling and before eating.
Do not spray on pilot light, electrical connections, switch, heating elements, or thermostats.
Do not spray onto aluminum or painted surfaces as damage to these surfaces may occur.
Do not use on microwave, convection or continuous-cleaning ovens.
Do not use on grill exterior, interior or components.

Storage

Keep out of reach of children.
Do not store at temperatures above 49 °C (120.2°F).
Avoid freezing to prevent bursting of the container.
Store away from direct sunlight and incompatible materials.

NOTE TO PARENTS: Intentional misuse by deliberately concentrating and inhaling aerosol products may be harmful or fatal. Help stop inhalation abuse; for information visit www.inhalant.org.

8. Exposure Controls / Personal Protection

Exposure limits

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium carbonate</td>
<td>ACGIH-TLV</td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td></td>
<td>OSHA-PEL</td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td>Diethylene glycol monobutyl ether</td>
<td>ACGIH-TLV</td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td></td>
<td>OSHA-PEL</td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td>Isobutane</td>
<td>ACGIH-TLV</td>
</tr>
<tr>
<td></td>
<td>TWA: 1000 ppm</td>
</tr>
<tr>
<td></td>
<td>OSHA-PEL</td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td>Monoethanolamine</td>
<td>ACGIH-TLV</td>
</tr>
<tr>
<td></td>
<td>TWA: 3 ppm</td>
</tr>
<tr>
<td></td>
<td>STEL: 6 ppm</td>
</tr>
<tr>
<td></td>
<td>OSHA-PEL</td>
</tr>
<tr>
<td></td>
<td>TWA: 3 ppm</td>
</tr>
</tbody>
</table>

Engineering controls

General ventilation normally adequate.

Personal protective equipment

Consult the product label for special protection or precautions that have been identified for using this product under directed consumer use conditions. The following recommendations are given for workplace employees, emergency personnel and for other conditions and situations where there is a greater potential for large-scale or prolonged exposure.

Eye / face protection

Avoid contact with eyes. Tightly fitting safety goggles
Hand protection
No special requirements under normal use conditions. Protective gloves are recommended for prolonged or repeated exposure.

Skin and body protection
Follow label directions carefully. Usual safety precautions while handling the product will provide adequate protection against injury or irritation.

Respiratory protection
Not normally required under normal use conditions. Emergency responders should wear self-contained breathing apparatus (SCBA) to avoid inhalation of vapours generated by this product during a spill or other clean-up operations.

General hygiene considerations
Avoid contact with skin, eyes and clothing. 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>Foamy spray</td>
</tr>
<tr>
<td>Color</td>
<td>Light tan to White</td>
</tr>
<tr>
<td>Form</td>
<td>Aerosol</td>
</tr>
<tr>
<td>Odor</td>
<td>Lemon</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>Physical state</td>
<td>Gas</td>
</tr>
<tr>
<td>pH</td>
<td>12.5</td>
</tr>
<tr>
<td>Freezing point</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>Not applicable</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>&gt; 199.94 °F (&gt; 93.3 °C) (Concentrate)</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 determined</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not determined</td>
</tr>
<tr>
<td>Specific gravity</td>
<td>0.994 - 1.07</td>
</tr>
<tr>
<td>Octanol/water coefficient</td>
<td>Not available</td>
</tr>
<tr>
<td>Solubility (H2O)</td>
<td>Complete</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not available</td>
</tr>
</tbody>
</table>

10. Stability and Reactivity

Reactivity
Reacts vigorously with acids.

Possibility of hazardous reactions
Hazardous polymerization does not occur.

Chemical stability
Stable under recommended storage conditions.

Conditions to avoid
Do not spray on pilot light, electrical connections, switch, heating elements, or thermostats. Do not spray onto aluminum or painted surfaces as damage to these surfaces may occur. Do not use on grill exterior, interior or components. Temperatures above 50°C. Do not mix with other chemicals. Do not freeze. Excessive heat and moisture.

Incompatible materials
Acids.

Hazardous decomposition products
May include and are not limited to: Oxides of carbon. Oxides of nitrogen. Some metallic oxides.
11. Toxicological Information

Component analysis - LC50

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium carbonate</td>
<td>Not available</td>
</tr>
<tr>
<td>Diethylene glycol monobutyl ether</td>
<td>Not available</td>
</tr>
<tr>
<td>Isobutane</td>
<td>658 mg/l/4h rat</td>
</tr>
<tr>
<td>Monoethanolamine</td>
<td>1210 mg/m3 mouse</td>
</tr>
</tbody>
</table>

Component analysis - Oral LD50

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>LD50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium carbonate</td>
<td>1870 mg/kg rat; 2570 mg/m3 mouse</td>
</tr>
<tr>
<td>Diethylene glycol monobutyl ether</td>
<td>2000 mg/kg guinea pig; 3384 mg/kg rat; 2200 mg/kg rabbit</td>
</tr>
<tr>
<td>Isobutane</td>
<td>Not available</td>
</tr>
<tr>
<td>Monoethanolamine</td>
<td>1720 mg/kg rat; 700 mg/kg mouse</td>
</tr>
</tbody>
</table>

Effects of acute exposure

- **Eye**: Moderately irritating to the eyes.
- **Skin**: None expected during normal conditions of use.
- **Inhalation**: Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
- **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.
- **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.

Name of Toxicologically Synergistic Products

Not available

12. Ecological Information

Ecotoxicity

Components of this product have been identified as having potential environmental concerns.

Ecotoxicity - Freshwater Algae - Acute Toxicity Data

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>EC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethylene glycol monobutyl ether</td>
<td>&gt;100 mg/L</td>
</tr>
<tr>
<td>Monoethanolamine</td>
<td>15 mg/L</td>
</tr>
</tbody>
</table>

Ecotoxicity - Freshwater Fish - Acute Toxicity Data

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethylene glycol monobutyl ether</td>
<td>1300 mg/L [static]</td>
</tr>
<tr>
<td>Monoethanolamine</td>
<td>227 mg/L [flow-through]; 3684 mg/L [static]; 300-1000 mg/L [static]; &gt;200 mg/L [flow-through]</td>
</tr>
</tbody>
</table>

Ecotoxicity - Water Flea - Acute Toxicity Data

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>EC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethylene glycol monobutyl ether</td>
<td>2850 mg/L; 48 mg/L Daphnia magna: &gt;100 mg/L</td>
</tr>
<tr>
<td>Monoethanolamine</td>
<td>65 mg/L</td>
</tr>
</tbody>
</table>

Persistence / degradability

Not available

Bioaccumulation / accumulation

Not available

Mobility in environmental media

Not available

Environmental effects

Not available

Aquatic toxicity

Not available

Partition coefficient

Not available

Chemical fate information

Not available
13. Disposal Considerations

<table>
<thead>
<tr>
<th>Disposal instructions</th>
<th>Dispose in accordance with all applicable regulations. Empty container can be disposed of as household trash or rinsed and recycled where appropriate.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Waste from residues / unused products</td>
<td>Not available</td>
</tr>
<tr>
<td>Contaminated packaging</td>
<td>Not available</td>
</tr>
</tbody>
</table>

14. Transport Information

U.S. Department of Transportation (DOT)

UN 1950, Aerosols, flammable, Class 2.1, Limited Quantity

Transportation of Dangerous Goods (TDG - Canada)

UN 1950, Aerosols, flammable, Class 2.1, Limited Quantity

IMDG (Marine Transport)

UN 1950, Aerosols, flammable, Class 2.1, Limited Quantity
### 15. Regulatory Information

#### Occupational Safety and Health Administration (OSHA)
- 29 CFR 1910.1200 hazardous chemical: Yes

#### 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.

#### U.S. - CAA (Clean Air Act) - Accidental Release Prevention - Flammable Substances
- Isobutane: 75-28-5, 10000 lb threshold quantity
- Diethylene glycol monobutyl ether: 112-34-5, Group I
- Monoethanolamine: 141-43-5, Group I

#### U.S. - CAA (Clean Air Act) - HON Rule - SOCMI Chemicals
- Diethylene glycol monobutyl ether: 112-34-5
- Monoethanolamine: 141-43-5

#### U.S. - CAA (Clean Air Act) - Reactivity Factors for VOCs in Aerosol Coatings
- Diethylene glycol monobutyl ether: 112-34-5, 2.70 G Ozone/g VOC Reactivity Factor
- Isobutane: 75-28-5, 1.35 G Ozone/g VOC Reactivity Factor
- Monoethanolamine: 141-43-5, 5.97 G Ozone/g VOC Reactivity Factor

#### U.S. - CAA (Clean Air Act) - SNAP Program Listing of Substitutes for ODSs
- Isobutane: 75-28-5, Acceptable substitute for: 6

#### U.S. - CAA (Clean Air Act) - Volatile Organic Compounds (VOCs) in SOCMI
- Diethylene glycol monobutyl ether: 112-34-5, Present
- Monoethanolamine: 141-43-5, Present (listed under Ethanolamines)

#### CERCLA (Superfund) reportable quantity
- None

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)
- **Hazard categories**
  - Immediate Hazard: Yes
  - Delayed Hazard: No
  - Fire Hazard: Yes
  - Pressure Hazard: Yes
  - Reactivity Hazard: No
- **Section 302 extremely hazardous substance**: No
- **Section 311 hazardous chemical**: No

#### Clean Water Act (CWA)
- Not available
This product is not subject to warning labeling under the California Proposition 65 regulation.

### State regulations

<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**

Professional EASY-OFF® Fume Free Oven Cleaner - Aerosol - 24 oz. - 363915v6.0

**Issue date**

30-Sept-2013

**Effective date**

15-May-2013

**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.