1. Product and Company Identification

Product Name: EASY-OFF® BBQ Grill Cleaner - Aerosol

UPC CODES: Refer to Section 16

CAS #: Mixture

Product use: Cleaner

Manufacturer: 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

2. Hazards Identification

Emergency overview

CAUTION
EYE IRRITANT
Contains Monoethanolamine and Diethylene Glycol n-Butyl Ether
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.

Eyes: Irritating to eyes.

Skin: None expected during normal conditions of use.

Inhalation: None expected during normal conditions of use.
However intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

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


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

Signs and symptoms: irritation

3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbonic acid, dipotassium salt</td>
<td>584-08-7</td>
<td>2.5 - 10</td>
</tr>
<tr>
<td>Ethanol, 2-(2-butoxyethoxy)-</td>
<td>112-34-5</td>
<td>2.5 - 10</td>
</tr>
<tr>
<td>Ethanol, 2-amino-</td>
<td>141-43-5</td>
<td>2.5 - 10</td>
</tr>
<tr>
<td>Isobutane</td>
<td>75-28-5</td>
<td>2.5 - 10</td>
</tr>
</tbody>
</table>
4. First Aid Measures

First aid procedures

Eye contact
If in eyes, IMMEDIATELY flush eyes with water. Remove any contact lenses and continue to flush eyes for at least 15 minutes. If irritation persists, get medical attention.

Skin contact
Wash off immediately with soap and plenty of water. Get medical attention if irritation develops or persists.

Inhalation
Move to fresh air. If symptoms develop or persist, seek medical advice.

Ingestion
Rinse mouth with water. If symptoms persist, call a physician or Poison Control Centre immediately. Do not induce vomiting. Never give anything by mouth to an unconscious person.

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 out of reach of children.

5. Fire Fighting Measures

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

Extinguishing media
Suitable extinguishing media

Unsuitable extinguishing media
Not available

Protection of firefighters
Specific hazards arising from the chemical
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.

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. Oxides of nitrogen.

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
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
CAUTION
Contents under pressure. CAUSES EYE IRRITATION. Do not puncture or incinerate container.
Use good industrial hygiene practices in handling this material. When using do not eat or drink. Wash hands after handling and before eating.

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 in original container in a cool, secure area inaccessible to children and pets.

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

<table>
<thead>
<tr>
<th>Exposure limits</th>
<th>Ingredient(s)</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Carbonic acid, dipotassium salt</td>
<td>ACGIH-TLV</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OSHA-PEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td></td>
<td>Ethanol, 2-(2-butoxyethoxy)-</td>
<td>ACGIH-TLV</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OSHA-PEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td></td>
<td>Ethanol, 2-amino-</td>
<td>ACGIH-TLV</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA: 3 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL: 6 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OSHA-PEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA: 3 ppm</td>
</tr>
<tr>
<td></td>
<td>Isobutane</td>
<td>ACGIH-TLV</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA: 1000 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OSHA-PEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Not established</td>
</tr>
</tbody>
</table>

**Engineering controls**
Provide adequate ventilation.

**Personal protective equipment**

| Eye / face protection | Avoid contact with eyes. |
|                       | tightly fitting safety goggles |
|                       | Emergency responders should wear full eye and face protection. |

| Hand protection | No special requirements under normal use conditions. |
|                | Emergency responders should wear impermeable gloves. |

| Skin and body protection | As required by employer code. |
|                          | 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. |
|                       | 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. Wash hands and face before breaks and immediately after handling the product.

9. Physical and Chemical Properties

<p>| Appearance | Foamy Spray |
| Color      | Light tan to White. |
| Form       | Aerosol. |
| Odor       | Lemon. |
| Odor threshold | Not available |
| Physical state | Gas |
| pH         | 12.5 |
| Freezing point | Not available |
| Pour point | Not available |
| Boiling point | Not applicable |
| Flash point | &gt; 200 °F (&gt; 93.33 °C) |
| Evaporation rate | Not available |</p>
<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<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>Not available</td>
</tr>
<tr>
<td>Octanol/water coefficient</td>
<td>Not available</td>
</tr>
<tr>
<td>Solubility (H2O)</td>
<td>Not determined</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not available</td>
</tr>
</tbody>
</table>

### 10. Stability and Reactivity

**Chemical stability**
Stable under recommended storage conditions.

**Conditions to avoid**
Aerosol containers are unstable at temperatures above 49°C (120.2°F). Do not mix with other chemicals. Heat, open flames, static discharge, sparks and other ignition sources. Do not freeze.
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.

**Incompatible materials**
Acids.

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

**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>Carbonic acid, dipotassium salt</td>
<td>Not available</td>
</tr>
<tr>
<td>Ethanol, 2-(2-butoxyethoxy)-</td>
<td>Not available</td>
</tr>
<tr>
<td>Ethanol, 2-amino-</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>Carbonic acid, dipotassium salt</td>
<td>1870 mg/kg rat; 2570 mg/m3 mouse</td>
</tr>
<tr>
<td>Ethanol, 2-(2-butoxyethoxy)-</td>
<td>2000 mg/kg guinea pig; 3384 mg/kg rat; 2200 mg/kg rabbit</td>
</tr>
<tr>
<td>Ethanol, 2-amino-</td>
<td>1720 mg/kg rat; 700 mg/kg mouse</td>
</tr>
</tbody>
</table>

#### Effects of acute exposure

**Eye**
Irritating to eyes.

**Skin**
None expected during normal conditions of use.

**Inhalation**
None expected during normal conditions of use.
However intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

**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.

**Synergistic Materials**
Not available
12. Ecological Information

Ecotoxicity

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

**Ecotoxicity - Freshwater Algae Data**
- Ethanol, 2-(2-butoxyethoxy)- 112-34-5 96 Hr EC50 Desmodesmus subspicatus: >100 mg/L
- Ethanol, 2-amino- 141-43-5 72 Hr EC50 Desmodesmus subspicatus: 15 mg/L

**Ecotoxicity - Freshwater Fish Species Data**
- Ethanol, 2-(2-butoxyethoxy)- 112-34-5 96 Hr LC50 Lepomis macrochirus: 1300 mg/L [static]
- Ethanol, 2-amino- 141-43-5 96 Hr LC50 Pimephales promelas: 227 mg/L [flow-through]; 96 Hr LC50 Brachydanio rerio: 3684 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 300-1000 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 114-196 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: >200 mg/L [flow-through]

**Ecotoxicity - Microtox Data**
- Ethanol, 2-amino- 141-43-5 30 Min EC50 Photobacterium phosphoreum: 13.7 mg/L; 17 Hr EC50 Pseudomonas putida: 110 mg/L; 2 Hr EC50 Nitrosomonas: 12200 mg/L

**Ecotoxicity - Water Flea Data**
- Ethanol, 2-(2-butoxyethoxy)- 112-34-5 24 Hr EC50 Daphnia magna: 2850 mg/L; 48 Hr EC50 Daphnia magna: >100 mg/L
- Ethanol, 2-amino- 141-43-5 48 Hr EC50 Daphnia magna: 65 mg/L

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

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)

UN1950, Aerosols, Class 2.2 (8), Re-classed as Consumer Commodity ORM-D, FORBIDDEN FROM AIR TRANSPORT
### 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:**

Not registered

**U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities**

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>Reportable Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol, 2-(2-butoxyethoxy)-</td>
<td>112-34-5</td>
<td>1 Lb statutory RQ (no final RQ is being assigned to the generic or broad class. Includes mono- and di- ethers of ethylene glycol, diethylene glycol and triethylene glycol R-(OCH2CH2)n-OR' where n = 1, 2 or 3, R = alkyl or aryl groups, R' = R or groups which when removed yield glycol ethers with the structure R-(OCH2CH2)n-OH. Polymers are excluded from glycol category); 0.454 k</td>
</tr>
</tbody>
</table>

**U.S. - CERCLA/SARA - Section 313 - Emission Reporting**

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>Emission Reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol, 2-(2-butoxyethoxy)-</td>
<td>112-34-5</td>
<td>1.0 Percent de minimis concentration (applies to R-(OCH2CH2)n-OR' ethers, where n = 1, 2, or 3, R=alkyl C7 or less or R = phenyl or alkyl subst. phenyl, R' = H or alkyl C7 or less, or OR' consisting of carboxylic acid ester, sulfate, phosphate, nitrate, or sulfonate, Chemical Category N230)</td>
</tr>
</tbody>
</table>

UN1950, Aerosols, Class 2.2 (8), Re-classed as Consumer Commodity/ Limited Quantity, FORBIDDEN FROM AIR TRANSPORT

IMDG (Marine Transport)

UN1950, Aerosols, Class 2.2 (8), Limited Quantity

IATA/ICAO (Air)

UN 1950, Aerosols, non-flammable, containing substances in Class 8, Packing Group II, 2.2 (8), FORBIDDEN FROM AIR TRANSPORT.
Occupational Safety and Health Administration (OSHA)
29 CFR 1910.1200 hazardous chemical Yes

CERCLA (Superfund) reportable quantity
None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - Yes
Reactivity Hazard - No

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. - California - 8 CCR Section 339 - Director's List of Hazardous Substances
Ethanol, 2-amino- 141-43-5 Present

U.S. - Illinois - Toxic Air Contaminants
Ethanol, 2-(2-butoxyethoxy)- 112-34-5 Present
Ethanol, 2-amino- 141-43-5 Present

U.S. - Louisiana - Reportable Quantity List for Pollutants
Ethanol, 2-(2-butoxyethoxy)- 112-34-5 100 Lb RQ

U.S. - Massachusetts - Right To Know List
Ethanol, 2-amino- 141-43-5 Present
Isobutane 75-28-5 Present

U.S. - Minnesota - Hazardous Substance List
Ethanol, 2-amino- 141-43-5 Present

U.S. - New Jersey - Right to Know Hazardous Substance List
Ethanol, 2-(2-butoxyethoxy)- 112-34-5 sn 2265
Ethanol, 2-amino- 141-43-5 sn 0835
Isobutane 75-28-5 sn 1040

U.S. - Pennsylvania - RTK (Right to Know) List
Ethanol, 2-(2-butoxyethoxy)- 112-34-5 environmental hazard
Ethanol, 2-amino- 141-43-5 Present
Isobutane 75-28-5 Present

U.S. - Rhode Island - Hazardous Substance List
Ethanol, 2-amino- 141-43-5 Toxic; Flammable

Inventory status
Country(s) or region Inventory name On inventory (yes/no)*
United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

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
62338-81817 - EASY-OFF® BBQ Grill Cleaner - Aerosol - 16 oz. - 0192178
62338-82382 - EASY-OFF® BBQ Grill Cleaner - Aerosol - 24 oz. - 0192178

Issue date
10-Feb-2010

Effective date
01-Feb-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.