MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name: EASY-OFF® Oven Cleaner - Heavy Duty
UPC CODES: Refer to section 16
CAS #: Mixture
Product use: Oven 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: DANGER -- CORROSIVE
CONTAINS SODIUM HYDROXIDE (LYE).
CAUSES BURNS TO SKIN AND EYES ON CONTACT.
HARMFUL IF SWALLOWED.
Contents under pressure,
Avoid contact with eyes, skin, mucous membranes and clothing.
DO NOT ingest. Use only with adequate ventilation. Avoid breathing spray mist.
Wear long rubber gloves when using.
KEEP OUT OF REACH OF CHILDREN.

Potential short term health effects:

Routes of exposure:
- Eye, Skin contact, Inhalation, Ingestion.
- Causes burns.
- Causes burns.
- None expected during normal conditions of use.
- However intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.
- Harmful if swallowed.

Target organs:

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

Signs and symptoms:
The product causes burns of eyes, skin and mucous membranes.
3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol, 2-(2-butoxyethoxy)-</td>
<td>112-34-5</td>
<td>2.5 - 10</td>
</tr>
<tr>
<td>Petroleum gases, liquefied, sweetened</td>
<td>68476-86-8</td>
<td>2.5 - 10</td>
</tr>
<tr>
<td>Sodium hydroxide</td>
<td>1310-73-2</td>
<td>2.5 - 10</td>
</tr>
<tr>
<td>Ethanol, 2-amino-</td>
<td>141-43-5</td>
<td>1 - 2.5</td>
</tr>
</tbody>
</table>

4. First Aid Measures

First aid procedures

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

Skin contact: Rinse immediately and remove contaminated clothing. Wash thoroughly with soap and water and continue flushing for at least 10 minutes. If discomfort persists, seek medical attention immediately.

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

Ingestion: Do not induce vomiting. Rinse mouth thoroughly and seek medical attention immediately.

Notes to physician: Treat patient symptomatically.

General advice: Keep away from sources of ignition. No smoking. 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: Dry chemical. Alcohol foam. Water spray.

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
Use good industrial hygiene practices in handling this material. Do not get this material in your eyes, on your skin, or on your clothing. Do not ingest. Do not breathe vapours or spray mist.

Storage
Keep out of reach of children. Do not store at temperatures above 49 °C (120.2°F). Keep away from heat, open flames or other sources of ignition. Keep from freezing.

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>Ethanol, 2-(2-butoxyethoxy)-</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>Ethanol, 2-amino-</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>
<tr>
<td>Petroleum gases, liquefied, sweetened</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>Sodium hydroxide</td>
<td>ACGIH-TLV</td>
</tr>
<tr>
<td></td>
<td>Ceiling: 2 mg/m3</td>
</tr>
<tr>
<td></td>
<td>OSHA-PEL</td>
</tr>
<tr>
<td></td>
<td>TWA: 2 mg/m3</td>
</tr>
</tbody>
</table>

Engineering controls
Provide adequate ventilation.

Personal protective equipment

Eye / face protection
- tightly fitting safety goggles

Hand protection
- Rubber gloves. Confirm with a reputable supplier first.

Skin and body protection
- As required by employer code. Long sleeved clothing
- Follow label directions carefully.

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. Wash hands before breaks and immediately after handling the product.

9. Physical and Chemical Properties

| Appearance | Aerosol. |
| Color      | White.   |
| Form       | compressed liquefied gas |
| Odor       | Characteristic |
| Odor threshold | Not available |
| Physical state | Gas |
| pH         | 13.3     |
| Freezing point | Not available |
| Pour point | Not available |
Boiling point Not available
Flash point > 200 °F (> 93.33 °C) (Liquid)
Evaporation rate Not available
Flammability limits in air, lower, % by volume Not available
Flammability limits in air, upper, % by volume Not available
Vapor pressure Not available
Vapor density Not available
Specific gravity 1.052 @ 25°C
Octanol/water coefficient Not available
Solubility (H2O) > 95 % @ 70°F
Auto-ignition temperature Not available
VOC (Weight %) Not available
Viscosity Not available

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 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.
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
Ingredient(s) LC50
Ethanol, 2-(2-butoxyethoxy)- Not available
Ethanol, 2-amino- 1210 mg/m3 mouse
Petroleum gases, liquefied, sweetened Not available
Sodium hydroxide Not available

Component analysis - Oral LD50
Ingredient(s) LD50
Ethanol, 2-(2-butoxyethoxy)- 2000 mg/kg guinea pig; 3384 mg/kg rat; 2200 mg/kg rabbit
Ethanol, 2-amino- 1720 mg/kg rat; 700 mg/kg mouse
Petroleum gases, liquefied, sweetened Not available
Sodium hydroxide Not available

Effects of acute exposure
Eye Causes burns.
Skin Causes burns.
Inhalation None expected during normal conditions of use.
Inhalation However intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.
Ingestion Harmful if swallowed.
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
  - 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]

- Sodium hydroxide: 1310-73-2
  - 96 Hr LC50 Oncorhynchus mykiss: 45.4 mg/L [static]

**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: 68 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.

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

<table>
<thead>
<tr>
<th>Substance</th>
<th>RQ</th>
<th>Remarks</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 ) h or groups which when removed yield glycol ethers with the structure ( R-(OCH2CH2)n-OH ). Polymers are excluded from glycol category); 0.454 kg</td>
</tr>
<tr>
<td>Sodium hydroxide</td>
<td>1310-73-2</td>
<td>1000 Lb final RQ; 454 kg final RQ</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Substance</th>
<th>RQ</th>
<th>Remarks</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>

**U.S. - CWA (Clean Water Act) - Hazardous Substances**

<table>
<thead>
<tr>
<th>Substance</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hydroxide</td>
<td>Present</td>
</tr>
</tbody>
</table>
Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical
Yes

CERCLA (Superfund) reportable quantity
Sodium hydroxide: 1000.0000

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
Sodium hydroxide 1310-73-2 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
Sodium hydroxide 1310-73-2 1000 Lb final RQ; 454 kg final RQ

U.S. - Massachusetts - Right To Know List
Ethanol, 2-amino- 141-43-5 Present
Sodium hydroxide 1310-73-2 Present

U.S. - Minnesota - Hazardous Substance List
Ethanol, 2-amino- 141-43-5 Present
Sodium hydroxide 1310-73-2 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
Sodium hydroxide 1310-73-2 sn 1706

U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances
Sodium hydroxide 1310-73-2 1000 Lb RQ (air); 100 lb RQ (land/water)

U.S. - Pennsylvania - RTK (Right to Know) List
Ethanol, 2-(2-butoxyethoxy)- 112-34-5 environmental hazard
Ethanol, 2-amino- 141-43-5 Present
Sodium hydroxide 1310-73-2 Environmental hazard

U.S. - Rhode Island - Hazardous Substance List
Ethanol, 2-amino- 141-43-5 Toxic; Flammable
Sodium hydroxide 1310-73-2 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
62338-00138 - 16 oz., EASY-OFF® Oven Cleaner - Heavy Duty Regular Scent: 371752 (772-004)

62338-81397 - 24 oz., EASY-OFF® Heavy Duty Oven Cleaner - Club Pack: 367270

Issue date
07-Jan-2010

Effective date
01-Jan-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.