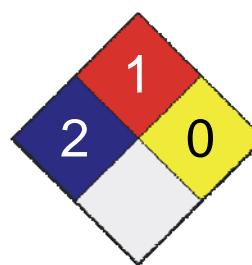


1. Product and Company Identification

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

LEGEND HMIS/NFPA	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Health	/ 2
Flammability	1
Physical Hazard	0
Personal Protection	D



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.
Target organs Eyes. Respiratory system. Skin. Gastrointestinal tract.
Chronic effects The finished product is not expected to have chronic health effects.
Signs and symptoms irritation

3. Composition / Information on Ingredients

Ingredient(s)	CAS #	Percent
Carbonic acid, dipotassium salt	584-08-7	2.5 - 10
Ethanol, 2-(2-butoxyethoxy)-	112-34-5	2.5 - 10
Ethanol, 2-amino-	141-43-5	2.5 - 10
Isobutane	75-28-5	2.5 - 10

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	Dry chemical. Carbon dioxide. 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	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

Exposure limits

Ingredient(s)	Exposure Limits
Carbonic acid, dipotassium salt	ACGIH-TLV Not established OSHA-PEL Not established
Ethanol, 2-(2-butoxyethoxy)-	ACGIH-TLV Not established OSHA-PEL Not established
Ethanol, 2-amino-	ACGIH-TLV TWA: 3 ppm STEL: 6 ppm OSHA-PEL TWA: 3 ppm
Isobutane	ACGIH-TLV TWA: 1000 ppm OSHA-PEL Not established

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

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	> 200 °F (> 93.33 °C)
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 determined
Vapor density	Not determined
Specific gravity	1.052 @ 25°C (Concentrate)
Octanol/water coefficient	Not available
Solubility (H2O)	>95% @ 70°F
Auto-ignition temperature	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 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

Ingredient(s)	LC50
Carbonic acid, dipotassium salt	Not available
Ethanol, 2-(2-butoxyethoxy)-	Not available
Ethanol, 2-amino-	1210 mg/m3 mouse
Isobutane	658 mg/l/4h rat

Component analysis - Oral LD50

Ingredient(s)	LD50
Carbonic acid, dipotassium salt	1870 mg/kg rat; 2570 mg/m3 mouse
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
Isobutane	Not available

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

Transportation of Dangerous Goods (TDG - Canada)

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

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

Ethanol, 2-(2-butoxyethoxy)-

112-34-5

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' = H or groups which when removed yield glycol ethers with the structure R-(OCH₂CH₂)_n-OH. Polymers are excluded from glycol category); 0.454 k

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

Ethanol, 2-(2-butoxyethoxy)-

112-34-5

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)

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.