

1. Product and Company Identification

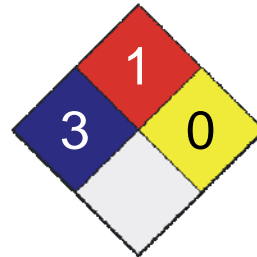
Product Name EASY OFF® Heavy Duty Oven Cleaner - Aerosol
CAS # Mixture
This MSDS is designed for workplace employees, emergency personnel and for other conditions and situations where there is a greater potential for large-scale or prolonged exposure, in accordance with requirements of the U.S. Government's 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

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

Health	/ 3
Flammability	2
Physical Hazard	0
Personal Protection	D



2. Hazards Identification

Emergency overview DANGER -- CORROSIVE
 Contents under pressure.
 WILL BURN EYES AND SKIN.
 HARMFUL IF SWALLOWED.
 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.
 To remove the safety cap, place both thumbs directly below the word "HERE" located on top of cap. Push cap upwards with both thumbs. DO NOT use knife or other tool to pry cap. Doing so may puncture container. ALIGN NOZZLE TO DOT ON CAN TO SPRAY. DO NOT spray towards face.
 Read warnings, precautions and entire label before use.
 KEEP OUT OF REACH OF CHILDREN.

Potential short term health effects

Routes of exposure Eye, Skin contact, Skin absorption, Inhalation, Ingestion.
Eyes Causes burns.
Skin Causes burns.
Inhalation None expected during normal conditions of use.
 However intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.
Ingestion Harmful if swallowed.
Target organs Eyes. Respiratory system. Skin. Gastrointestinal tract.
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

Ingredient(s)	CAS #	Percent
Ethanol, 2-(2-butoxyethoxy)-	112-34-5	2.5 - 10
Petroleum gases, liquefied, sweetened	68476-86-8	2.5 - 10
Sodium hydroxide	1310-73-2	2.5 - 10
Monoethanolamine	141-43-5	1 - 2.5

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

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

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.

Do not induce vomiting. Rinse mouth thoroughly and seek medical attention immediately. Never give anything by mouth to an unconscious person.

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).

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

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.

Environmental precautions

Prevent further leakage or spillage if safe to do so.

Do not contaminate water and ground system.

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.
 Use good industrial hygiene practices in handling this material.
 Avoid contact with eyes, skin and clothing.
 Do not ingest.
 Do not breathe vapours or spray mist.
 Wash hands thoroughly after handling.
 Recommended for use ONLY on porcelain, enamel, iron, stainless steel, ceramic and glass surfaces. Avoid excessive use on glass. Do not use on exterior oven surfaces, aluminum, chrome, baked enamel. Do not use on self-cleaning or continuous cleaning ovens. Avoid spraying over pilot light. Keep off all electrical connections such as heating element, thermostat bulb receptacles, light switch. Do not puncture or incinerate container, expose to heat or store at temperature above 120°F. Never leave can on stove or near source of heat. Avoid freezing
 Read and follow product label instructions.
 To remove safety cap, place both thumbs directly below the word "HERE" located on top of cap. Push cap upwards with both thumbs. DO NOT use knife or other tool to pry cap. Doing so may puncture container
 DO NOT spray towards face.
 Wear rubber gloves.

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.
 Protect from direct sunlight and extreme heat.
 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**Ingredient(s)****Exposure Limits**

Ethanol, 2-(2-butoxyethoxy)-

ACGIH-TLV
 Not established
OSHA-PEL
 Not established

Monoethanolamine

ACGIH-TLV
 TWA: 3 ppm
 STEL: 6 ppm
OSHA-PEL
 TWA: 3 ppm

Petroleum gases, liquefied, sweetened

ACGIH-TLV
 Not established
OSHA-PEL
 Not established

Sodium hydroxide

ACGIH-TLV
 Ceiling: 2 mg/m³
OSHA-PEL
 TWA: 2 mg/m³

Engineering controls

Provide adequate ventilation.

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	tightly fitting safety goggles
Hand protection	Wear long rubber gloves when handling.
Skin and body protection	As required by employer code. long sleeved clothing Usual safety precautions while handling the product will provide adequate protection against injury or irritation. Follow label directions carefully.
Respiratory protection	Not normally required under normal use conditions. Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. 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	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. Avoid contact with eyes, skin and clothing.

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
Boiling point	Not available
Pour point	Not available
Evaporation rate	Not available
Flash point	> 200 °F (> 93.33 °C) (Liquid)
Auto-ignition temperature	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
VOC (Weight %)	Not available
Viscosity	Not available

10. Stability and Reactivity

Reactivity	This product may react with strong acids.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Chemical stability	Stable under recommended storage conditions.

Conditions to avoid

Aerosol containers are unstable at temperatures above 49°C (120.2°F).
 Avoid excessive use on glass. Do not use on exterior oven surfaces, aluminum, chrome, baked enamel. Do not use on self-cleaning or continuous cleaning ovens. Avoid spraying over pilot light. Keep off all electrical connections such as heating element, thermostat bulb receptacles, light switch. Do not puncture or incinerate container, expose to heat or store at temperature above 120°F. Never leave can on stove or near source of heat.
 Avoid freezing.
 Do not use on grill exterior, interior or components.
 Do not spray onto aluminum or painted surfaces as damage to these surfaces may occur.
 Keep away from open flames, hot surfaces and sources of ignition.

Incompatible materials

Acids. Oxidizing agents. Aluminum.

Hazardous decomposition products

May include and are not limited to: Oxides of carbon. Oxides of nitrogen.

11. Toxicological Information

Component analysis - LC50

Ingredient(s)	LC50
Ethanol, 2-(2-butoxyethoxy)-	Not available
Monoethanolamine	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
Monoethanolamine	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. 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.

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

Ethanol, 2-(2-butoxyethoxy)-	112-34-5	96 Hr EC50 Desmodesmus subspicatus: >100 mg/L
Monoethanolamine	141-43-5	72 Hr EC50 Desmodesmus subspicatus: 15 mg/L

Ecotoxicity - Freshwater Fish - Acute Toxicity Data

Ethanol, 2-(2-butoxyethoxy)-	112-34-5	96 Hr LC50 Lepomis macrochirus: 1300 mg/L [static]
Monoethanolamine	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 - Water Flea - Acute Toxicity Data

Ethanol, 2-(2-butoxyethoxy)-	112-34-5	24 Hr EC50 Daphnia magna: 2850 mg/L; 48 Hr EC50 Daphnia magna: >100 mg/L
Monoethanolamine	141-43-5	48 Hr EC50 Daphnia magna: 65 mg/L

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

Disposal instructions	Dispose in accordance with all applicable regulations. Container disposal: Empty containers may be included with domestic refuse for disposal to a landfill. This container may also be recycled in communities where aerosol container recycling is available. Before offering for recycling, empty the can or use the product according to the label instructions.
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), Limited Quantity

Transportation of Dangerous Goods (TDG - Canada)

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

IATA/ICAO (Air)

UN1950, Aerosols, non-flammable, containing substances in Class 8, Packing Group II, 2.2 (8), FORBIDDEN FROM AIR TRANSPORT

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.

U.S. - CAA (Clean Air Act) - HON Rule - SOCM Chemicals

Ethanol, 2-(2-butoxyethoxy)-	112-34-5	Group I
Monoethanolamine	141-43-5	Group I

U.S. - CAA (Clean Air Act) - Reactivity Factors for VOCs in Aerosol Coatings

Ethanol, 2-(2-butoxyethoxy)-	112-34-5	2.70 G Ozone/g VOC Reactivity Factor
Monoethanolamine	141-43-5	5.97 G Ozone/g VOC Reactivity Factor

U.S. - CAA (Clean Air Act) - Volatile Organic Compounds (VOCs) in SOCM

Ethanol, 2-(2-butoxyethoxy)-	112-34-5	Present
Monoethanolamine	141-43-5	Present (listed under Ethanolamines)

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

Sodium hydroxide	1310-73-2	1000 Lb final RQ; 454 kg final RQ
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U.S. - CWA (Clean Water Act) - Hazardous Substances

Sodium hydroxide	1310-73-2	Present
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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
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Section 311 hazardous chemical	No
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Clean Water Act (CWA)	Hazardous substance
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State regulations

This product is not subject to warning labeling under the California Proposition 65 regulation.

U.S. - California - 8 CCR Section 339 - Director's List of Hazardous Substances

Monoethanolamine	141-43-5	Present
Sodium hydroxide	1310-73-2	Present

U.S. - Illinois - Toxic Air Contaminants

Monoethanolamine	141-43-5	Present
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U.S. - Louisiana - Reportable Quantity List for Pollutants

Sodium hydroxide	1310-73-2	1000 Lb final RQ; 454 kg final RQ
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U.S. - Massachusetts - Right To Know List

Monoethanolamine	141-43-5	Present
Sodium hydroxide	1310-73-2	Present

U.S. - Minnesota - Hazardous Substance List

Monoethanolamine	141-43-5	Present
Sodium hydroxide	1310-73-2	Present

U.S. - New Jersey - Right to Know Hazardous Substance List

Monoethanolamine	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)
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U.S. - Pennsylvania - RTK (Right to Know) List

Monoethanolamine	141-43-5	Present
Sodium hydroxide	1310-73-2	Environmental hazard

U.S. - Rhode Island - Hazardous Substance List

Monoethanolamine	141-43-5	Toxic; Flammable
Sodium hydroxide	1310-73-2	Toxic (caustic); Flammable (caustic)

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

EASY OFF® Heavy Duty Oven Cleaner - Aerosol, 16 oz - 371752v5.0

Issue date

08-Feb-2013

Effective date

01-Feb-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.