

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

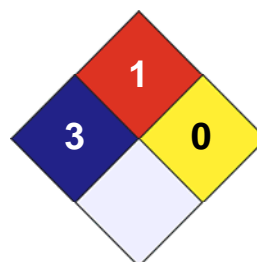
Product name EASY-OFF® Heavy Duty Oven Cleaner - Trigger
CAS # Mixture
 This MSDS is designed for workplace employees, emergency personnel and for other conditions and situations where there is a greater potential for large-scale or prolonged exposure, in accordance with requirements of the Canadian Workplace Hazardous Materials Information System (WHMIS).
 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 (Canada) Inc.
 1680 Tech Avenue Unit #2
 Mississauga, ON L4W 5S9
 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	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

HEALTH	/ 3
FLAMMABILITY	1
PHYSICAL HAZARD	0
PERSONAL PROTECTION	D



2. Hazards Identification

Emergency overview DANGER -- CORROSIVE
 CORROSIVE TO EYES AND SKIN
 Causes burns.
 Do not get in eyes, on skin or on clothing.
 DO NOT swallow.
 DO NOT inhale.
 Wear long rubber gloves.
 To open, set bottle on hard level surface. Keep back label facing you. Use one hand to depress the button on the top of the nozzle while you turn the red portion of the nozzle in a counterclockwise direction with the other hand. Rotate nozzle counterclockwise to achieve desired spray pattern.

KEEP OUT OF REACH OF CHILDREN.

Potential short term health effects

Routes of exposure Eye, Skin contact, Skin absorption, Inhalation, Ingestion.

Eyes Corrosive.
 Causes burns to eyes on contact.

Skin Corrosive.
 Causes burns to skin and mucous membranes on contact.

Inhalation Corrosive.
 Avoid breathing spray mist.

Ingestion Corrosive.
 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.

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

3. Composition/Information on Ingredients

Components	CAS #	Percent
Diethylene glycol monobutyl ether	112-34-5	3 - 7
Sodium hydroxide	1310-73-2	3 - 7
Monoethanolamine	141-43-5	1 - 5
Paraffin waxes (petroleum), clay-treated	64742-43-4	0.5 - 1.5

4. First Aid Measures

First aid procedures

Eye contact	If in eyes, rinse with water for 15 minutes.
Skin contact	If on skin, rinse well with water. If on clothes, remove clothes.
Inhalation	If breathed in, move person into fresh air.
Ingestion	If swallowed, call a Poison Control Centre or doctor immediately. Do not induce vomiting.

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 Not flammable by WHMIS criteria.

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 Not available

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 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. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice.

7. Handling and Storage

Handling	Ensure adequate ventilation. CORROSIVE TO EYES AND SKIN. READ ENTIRE LABEL BEFORE USE. Do not get this material in your eyes, on your skin, or on your clothing. Wear long rubber gloves. Do not breathe vapours or spray mist. Do not ingest. Use good industrial hygiene practices in handling this material. NOT FOR USE ON CONTINUOUS OR SELF-CLEANING OVENS. ALWAYS FOLLOW MANUFACTURER'S CARE INSTRUCTIONS.
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.

8. Exposure Controls/Personal Protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Diethylene glycol monobutyl ether (CAS 112-34-5)	TWA	10 ppm	Inhalable fraction and vapor.
Monoethanolamine (CAS 141-43-5)	STEL	6 ppm	
	TWA	3 ppm	
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3	

Exposure limits Chemicals listed in section 3 that are not listed here do not have established limit values for ACGIH.

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. Emergency responders should wear full eye and face protection.
Hand protection	Wear long rubber gloves when handling. Emergency responders should wear impermeable gloves.
Skin and body protection	As required by employer code. long sleeved clothing Follow label directions carefully. 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	Handle in accordance with good industrial hygiene and safety practices. 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

Appearance	Liquid
Colour	Off white
Form	Fluid
Odour	Lemon
Odour threshold	Not available.
Physical state	Liquid.

pH	14 (Basic)
Freezing point	Not available.
Boiling point	Not available
Pour point	Not available.
Evaporation rate	Not available
Flash point	> 93.3 °C (> 200.0 °F) Tagliabue
Auto-ignition temperature	Not available
Flammability Limits in Air, Upper, % by Volume	Not available
Flammability Limits in Air, Lower, % by Volume	Not available
Heat of combustion	Not available.
Vapour pressure	Not available
Vapour density	Not available
Specific gravity	1.07
Partition coefficient (n-octanol/water)	Not available
Solubility (Water)	Complete
Relative density	Not available.
Viscosity	Thick
VOC	Not available
Percent volatile	Not available

10. Stability and Reactivity

Reactivity	This product may react with strong oxidising agents.
Possibility of hazardous reactions	Hazardous polymerisation 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.
Incompatible materials	Acids. Oxidizing agents. Aluminium.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon. Oxides of nitrogen.

11. Toxicological Information

Toxicological data

Components	Species	Test results
Diethylene glycol monobutyl ether (CAS 112-34-5)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	2700 mg/kg
<i>Oral</i>		
LD50	Guinea pig	2000 mg/kg
	Mouse	2400 mg/kg
	Rabbit	2200 mg/kg
	Rat	3384 mg/kg
LC50		
Not available.		

Components	Species	Test results
Monoethanolamine (CAS 141-43-5)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	1018 mg/kg
		1000 mg/kg
<i>Inhalation</i>		
LC50	Mouse	1210 mg/m3, 4 Hours
		484 ppm, 4 Hours
		1.2 mg/l, 4 Hours
<i>Oral</i>		
LD50	Guinea pig	620 mg/kg
	Mouse	1475 mg/kg
		700 mg/kg
	Rat	1970 mg/kg
		1720 mg/kg
Paraffin waxes (petroleum), clay-treated (CAS 64742-43-4)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	> 2000 mg/kg
<i>Oral</i>		
LD50	Rat	> 15000 mg/kg
LC50		
Not available.		
Sodium hydroxide (CAS 1310-73-2)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	1350 mg/kg
LC50		
Not available.		
LD50		
Not available.		
Effects of acute exposure		
Eye contact	Corrosive. Causes burns to eyes on contact.	
Skin contact	Corrosive. Causes burns to skin and mucous membranes on contact.	
Inhalation	Corrosive. Avoid breathing spray mist.	
Ingestion	Corrosive. Harmful if swallowed.	
Sensitisation	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.

Ecotoxicological data

Components		Species	Test results
Diethylene glycol monobutyl ether (CAS 112-34-5)			
Crustacea	EC50	Daphnia	2850 mg/L, 48 Hours
Aquatic			
Fish	LC50	Bluegill (<i>Lepomis macrochirus</i>)	1300 mg/l, 96 hours
Monoethanolamine (CAS 141-43-5)			
Algae	IC50	Algae	15 mg/L, 72 Hours
Crustacea	EC50	Daphnia	65 mg/L, 48 Hours
Aquatic			
Fish	LC50	Rainbow trout,donaldson trout (<i>Oncorhynchus mykiss</i>)	114 - 196 mg/l, 96 hours
Sodium hydroxide (CAS 1310-73-2)			
Aquatic			
Crustacea	EC50	Water flea (<i>Ceriodaphnia dubia</i>)	34.59 - 47.13 mg/l, 48 hours
Fish	LC50	Western mosquitofish (<i>Gambusia affinis</i>)	125 mg/l, 96 hours
Persistence and degradability	Not available.		
Bioaccumulation/accumulation	Not available		
Mobility in environmental media	Not available.		
Environmental effects	Not available.		
Aquatic toxicity	Not available.		
Partition coefficient			
Diethylene glycol monobutyl ether		0.56	
Monoethanolamine		-1.31	
Chemical fate information	Not available.		

13. Disposal Considerations

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)

UN 3266, Corrosive liquid, basic, inorganic, N.O.S. (Sodium Hydroxide, Monoethanolamine), Class 8, PG II, Limited Quantity

Transportation of Dangerous Goods (TDG - Canada)

UN 3266, Corrosive liquid, basic, inorganic, N.O.S. (Sodium Hydroxide, Monoethanolamine), Class 8, PG II, Limited Quantity

IATA/ICAO (Air)

UN 3266, Corrosive liquid, basic, inorganic, N.O.S. (Sodium Hydroxide, Monoethanolamine), Class 8, PG II

IMDG (Marine Transport)

UN 3266, Corrosive liquid, basic, inorganic, N.O.S. (Sodium Hydroxide, Monoethanolamine), Class 8, PG II, Limited Quantity

15. Regulatory Information

Canadian federal regulations This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Smectite group minerals is listed on the NDSL. However, it is exempt from notification to Environment Canada because the substance is naturally occurring.

Product Registration: Product is compliant with CCCR regulatory guidelines; a specific registration is not required for this product.

Canada NPRI VOCs with Additional Reporting Requirements: Mass reporting threshold/Identification Number

Diethylene glycol monobutyl ether (CAS 112-34-5) 1 tonnes

Canada WHMIS Ingredient Disclosure: Threshold limits

Diethylene glycol monobutyl ether (CAS 112-34-5) 1 %

Monoethanolamine (CAS 141-43-5) 1 %

Sodium hydroxide (CAS 1310-73-2) 1 %

WHMIS Classification Exempt - Consumer product

Inventory status

Country(s) or region	Inventory Name	On Inventory (Yes/No)*
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	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 - Trigger - 364199v5.0

Issue date 13-March-2014

Effective date 15-March-2014

Expiry Date 15-March-2017

Prepared by Reckitt Benckiser Regulatory Department Phone: 800-333-3899

Other information For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.

This MSDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.