

1. Product and Company Identification

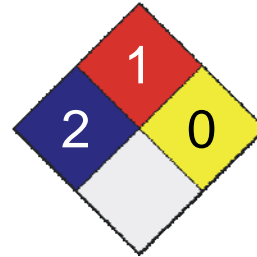
Product Name EASY-OFF® Fume Free Max Oven Cleaner - Aerosol
CAS # Mixture
This MSDS is designed for workplace employees, emergency personnel and for other conditions and situations where there is a greater potential for large-scale or prolonged exposure, in accordance with requirements of the Canadian 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 HMIS/NFPA	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Health	/ 2
Flammability	1
Physical Hazard	0
Personal Protection	B



2. Hazards Identification

Emergency Overview CAUTION
 EYE IRRITANT.
 Contents under pressure.
 CONTAINER MAY EXPLODE IF HEATED.
 DO NOT get in eyes.
 Do not breathe fumes.
 DO NOT puncture or burn.
 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, Ingestion.

Eyes

Moderately irritating to the eyes.

Skin

None expected during normal conditions of use.

Inhalation

Exposure to decomposition products may cause a health hazard.
 Serious effects may be delayed following exposure.

Ingestion

Health injuries are not known or expected under normal use.

Target organs

Eyes. Respiratory system. Skin. Gastrointestinal tract. Liver.

Chronic effects

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

Signs and symptoms

irritation

Potential environmental effects

See section 12.

3. Composition/Information on Ingredients

Ingredient(s)	CAS #	Percent
Monoethanolamine	141-43-5	1 - 5
Potassium carbonate	584-08-7	3 - 7
Isobutane	75-28-5	3 - 7
Diethylene glycol monobutyl ether	112-34-5	5 - 10

4. First Aid Measures

First aid procedures

Eye contact	If in eyes, IMMEDIATELY rinse eyes with water, remove any contact lenses and continue rinsing eyes for at least 15 minutes. If irritation persists, get medical attention.
Skin contact	In case of skin contact, immediately flush exposed area with plenty of water for at least 15 minutes. Remove any contaminated clothing and wash thoroughly with soap and water. Get immediate medical attention if irritation persists.
Inhalation	Remove to fresh air.

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.

Ingestion	If swallowed, DO NOT induce vomiting, call a Poison Control Centre or physician immediately. Rinse mouth out with water.
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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 away from sources of ignition. No smoking. 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 Treat for surrounding material.

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. Some metallic oxides.

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. 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.
Contents under pressure.
Do not puncture or incinerate container.
Use according to package label instructions.
Avoid contact with eyes. Do not breathe fumes.
Keep away from open flames, hot surfaces and sources of ignition.
Wash hands after handling and before eating.
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 microwave, convection or continuous-cleaning ovens.
Do not use on grill exterior, interior or components.

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 away from direct sunlight and incompatible materials.

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 limit values

Ingredient(s)

Exposure limit values

Diethylene glycol monobutyl ether

ACGIH-TLV

Not established

Isobutane

ACGIH-TLV

TWA: 1000 ppm

Monoethanolamine

ACGIH-TLV

TWA: 3 ppm

STEL: 6 ppm

Potassium carbonate

ACGIH-TLV

Not established

Engineering controls

General ventilation normally adequate.

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

Avoid contact with eyes. Tightly fitting safety goggles.

Hand protection

No special requirements under normal use conditions.
Protective gloves are recommended for prolonged or repeated exposure.

Skin and body protection

Follow label directions carefully. Usual safety precautions while handling the product will provide adequate protection against injury or irritation.

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.
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	Foamy Spray
Colour	Light tan to White.
Form	Aerosol.
Odour	Lemon
Odour threshold	Not available
Physical state	Gas
pH	12.5
Freezing point	Not available
Boiling point	Not applicable
Pour point	Not available
Evaporation Rate	Not available
Flash point	> 93.3 °C (> 199.94 °F) (Concentrate)
Auto-ignition temperature	Not available
Flammability limits in air, lower, % by volume	Not available
Flammability Limits in Air, Upper, % by Volume	Not available
Vapour pressure	not determined
Vapour density	not determined
Specific gravity	0.994 - 1.07
Octanol/water coefficient	Not available
Solubility (H₂O)	Complete
Viscosity	Not available

10. Stability and Reactivity

Reactivity	Reacts vigorously with acids.
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. Temperatures above 50°C. Do not mix with other chemicals. Do not freeze Excessive heat and moisture.
Incompatible materials	Acids.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon. Oxides of nitrogen. Some metallic oxides.

11. Toxicological Information

Component analysis - LC50

Ingredient(s)	LC50
Diethylene glycol monobutyl ether	Not available
Isobutane	658 mg/l/4h rat
Monoethanolamine	1210 mg/m ³ mouse
Potassium carbonate	Not available

Component analysis - Oral LD50

Ingredient(s)	LD50
Diethylene glycol monobutyl ether	2000 mg/kg guinea pig; 3384 mg/kg rat; 2200 mg/kg rabbit
Isobutane	Not available
Monoethanolamine	1720 mg/kg rat; 700 mg/kg mouse
Potassium carbonate	1870 mg/kg rat; 2570 mg/m3 mouse

Effects of acute exposure

Eye	Moderately irritating to the eyes.
Skin	None expected during normal conditions of use.
Inhalation	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Ingestion	Health injuries are not known or expected under normal use.
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.

Ecotoxicity - Freshwater Algae - Acute Toxicity Data

Diethylene glycol monobutyl ether 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

Diethylene glycol monobutyl ether 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]

Ecotoxicity - Water Flea - Acute Toxicity Data

Diethylene glycol monobutyl ether 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 and 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
Other adverse effects	Not available

13. Disposal Considerations

Disposal instructions	Dispose in accordance with all applicable regulations. Empty container can be disposed of as household trash or rinsed and recycled where appropriate.
Waste from residues / unused products	Not available
Contaminated packaging	Not available

14. Transport Information

U.S. Department of Transportation (DOT)

UN 1950, Aerosols, flammable, Class 2.1, Limited Quantity

Transportation of Dangerous Goods (TDG - Canada)

UN 1950, Aerosols, flammable, Class 2.1, Limited Quantity

IMDG (Marine Transport)

UN 1950, Aerosols, flammable, Class 2.1, Limited Quantity

IATA/ICAO (Air)

UN 1950, Aerosols, flammable, Class 2.1

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.

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

Canada - CEPA - High Priority Chemicals as Identified by DSL Categorization

Isobutane 75-28-5 Batch 4, published November 17, 2007

Canada - WHMIS - Ingredient Disclosure List

Diethylene glycol monobutyl ether	112-34-5	1 %
Monoethanolamine	141-43-5	1 %
Potassium carbonate	584-08-7	1 %

WHMIS classification

Exempt - Consumer product

Inventory Status

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

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® Fume Free Max Oven Cleaner - Aerosol, 400 g - 363915v6.0

Issue date

28-May-2013

Effective Date

15-May-2013

Expiry Date

15-May-2016

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.