

## 1. Product and Company Identification

**Product Name** DfcZyggjcbU'EASY-OFF® Fume Free Oven Cleaner - Aerosol  
**CAS #** Mixture

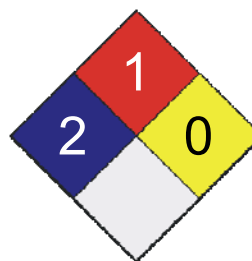
**This MSDS is designed for workplace employees, emergency personnel and for other conditions and situations where there is a greater potential for large-scale or prolonged exposure, in accordance with requirements of the U.S. Government's Occupational Safety and Health Administration (OSHA).  
 This 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	/ 2
Flammability	1
Physical Hazard	0
Personal Protection	B



## 2. Hazards Identification

**Emergency overview** CAUTION  
 EYE IRRITANT.  
 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, 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

**OSHA Regulatory Status** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**Potential environmental effects** See section 12.

### 3. Composition / Information on Ingredients

Ingredient(s)	CAS #	Percent
Potassium carbonate	584-08-7	2.5 - 10
Diethylene glycol monobutyl ether	112-34-5	2.5 - 10
Isobutane	75-28-5	2.5 - 10
Monoethanolamine	141-43-5	2.5 - 10

### 4. First Aid Measures

#### First aid procedures

<b>Eye contact</b>	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.
<b>Skin contact</b>	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.
<b>Inhalation</b>	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](http://www.inhalant.org).

<b>Ingestion</b>	If swallowed, DO NOT induce vomiting, call a Poison Control Center or physician immediately. Rinse mouth out with water.
------------------	--

#### 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.  
 Be sure to point arrow towards directions dot and away from face.  
 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](http://www.inhalant.org).

## 8. Exposure Controls / Personal Protection

**Exposure limits****Ingredient(s)****Exposure Limits**

Potassium carbonate

**ACGIH-TLV**  
 Not established  
**OSHA-PEL**  
 Not established

Diethylene glycol monobutyl ether

**ACGIH-TLV**  
 Not established  
**OSHA-PEL**  
 Not established

Isobutane

**ACGIH-TLV**  
 TWA: 1000 ppm  
**OSHA-PEL**  
 Not established

Monoethanolamine

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

**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

<b>Hand protection</b>	No special requirements under normal use conditions. Protective gloves are recommended for prolonged or repeated exposure.
<b>Skin and body protection</b>	Follow label directions carefully. Usual safety precautions while handling the product will provide adequate protection against injury or irritation.
<b>Respiratory protection</b>	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.
<b>General hygiene considerations</b>	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

---

<b>Appearance</b>	Foamy spray
<b>Color</b>	Light tan to White.
<b>Form</b>	Aerosol
<b>Odor</b>	Lemon
<b>Odor threshold</b>	Not available
<b>Physical state</b>	Gas
<b>pH</b>	12.5
<b>Freezing point</b>	Not available
<b>Boiling point</b>	Not applicable
<b>Pour point</b>	Not available
<b>Evaporation rate</b>	Not available
<b>Flash point</b>	> 199.94 °F (> 93.3 °C) (Concentrate)
<b>Auto-ignition temperature</b>	Not available
<b>Flammability limits in air, lower, % by volume</b>	Not available
<b>Flammability limits in air, upper, % by volume</b>	Not available
<b>Vapor pressure</b>	Not determined
<b>Vapor density</b>	Not determined
<b>Specific gravity</b>	0.994 - 1.07
<b>Octanol/water coefficient</b>	Not available
<b>Solubility (H2O)</b>	Complete
<b>Viscosity</b>	Not available

---

## 10. Stability and Reactivity

---

<b>Reactivity</b>	Reacts vigorously with acids.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Conditions to avoid</b>	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.
<b>Incompatible materials</b>	Acids.
<b>Hazardous decomposition products</b>	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
Potassium carbonate	Not available
Diethylene glycol monobutyl ether	Not available
Isobutane	658 mg/l/4h rat
Monoethanolamine	1210 mg/m3 mouse

### Component analysis - Oral LD50

Ingredient(s)	LD50
Potassium carbonate	1870 mg/kg rat; 2570 mg/m3 mouse
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

### Effects of acute exposure

<b>Eye</b>	Moderately irritating to the eyes.
<b>Skin</b>	None expected during normal conditions of use.
<b>Inhalation</b>	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
<b>Ingestion</b>	Health injuries are not known or expected under normal use.
<b>Sensitization</b>	The finished product is not expected to have chronic health effects.
<b>Chronic effects</b>	The finished product is not expected to have chronic health effects.
<b>Carcinogenicity</b>	The finished product is not expected to have chronic health effects.
<b>Mutagenicity</b>	The finished product is not expected to have chronic health effects.
<b>Reproductive effects</b>	The finished product is not expected to have chronic health effects.
<b>Teratogenicity</b>	The finished product is not expected to have chronic health effects.
<b>Name of Toxicologically Synergistic Products</b>	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 <i>Desmodesmus subspicatus</i> : >100 mg/L
Monoethanolamine	141-43-5	72 Hr EC50 <i>Desmodesmus subspicatus</i> : 15 mg/L

### Ecotoxicity - Freshwater Fish - Acute Toxicity Data

Diethylene glycol monobutyl ether	112-34-5	96 Hr LC50 <i>Lepomis macrochirus</i> : 1300 mg/L [static]
Monoethanolamine	141-43-5	96 Hr LC50 <i>Pimephales promelas</i> : 227 mg/L [flow-through]; 96 Hr LC50 <i>Brachydanio rerio</i> : 3684 mg/L [static]; 96 Hr LC50 <i>Lepomis macrochirus</i> : 300-1000 mg/L [static]; 96 Hr LC50 <i>Oncorhynchus mykiss</i> : 114-196 mg/L [static]; 96 Hr LC50 <i>Oncorhynchus mykiss</i> : >200 mg/L [flow-through]

### Ecotoxicity - Water Flea - Acute Toxicity Data

Diethylene glycol monobutyl ether	112-34-5	24 Hr EC50 <i>Daphnia magna</i> : 2850 mg/L; 48 Hr EC50 <i>Daphnia magna</i> : >100 mg/L
Monoethanolamine	141-43-5	48 Hr EC50 <i>Daphnia magna</i> : 65 mg/L

<b>Persistence / degradability</b>	Not available
<b>Bioaccumulation / accumulation</b>	Not available
<b>Mobility in environmental media</b>	Not available
<b>Environmental effects</b>	Not available
<b>Aquatic toxicity</b>	Not available
<b>Partition coefficient</b>	Not available
<b>Chemical fate information</b>	Not available

---

## 13. Disposal Considerations

---

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

**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.

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

**U.S. - CAA (Clean Air Act) - Accidental Release Prevention - Flammable Substances**

Isobutane      75-28-5      10000 lb threshold quantity

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

Diethylene glycol monobutyl ether      112-34-5      Group I

Monoethanolamine      141-43-5      Group I

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

Diethylene glycol monobutyl ether      112-34-5      2.70 G Ozone/g VOC Reactivity Factor

Isobutane      75-28-5      1.35 G Ozone/g VOC Reactivity Factor

Monoethanolamine      141-43-5      5.97 G Ozone/g VOC Reactivity Factor

**U.S. - CAA (Clean Air Act) - SNAP Program Listing of Substitutes for ODSs**

Isobutane      75-28-5      Acceptable substitute for: 6

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

Diethylene glycol monobutyl ether      112-34-5      Present

Monoethanolamine      141-43-5      Present (listed under Ethanolamines)

**CERCLA (Superfund) reportable quantity**

None

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories**  
 Immediate Hazard - Yes  
 Delayed Hazard - No  
 Fire Hazard - Yes  
 Pressure Hazard - Yes  
 Reactivity Hazard - No

**Section 302 extremely hazardous substance**      No

**Section 311 hazardous chemical**      No

**Clean Water Act (CWA)**      Not available

**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

**U.S. - Illinois - Toxic Air Contaminants**

Monoethanolamine 141-43-5 Present

**U.S. - Massachusetts - Right To Know List**

Isobutane 75-28-5 Present

Monoethanolamine 141-43-5 Present

**U.S. - Minnesota - Hazardous Substance List**

Monoethanolamine 141-43-5 Present

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

Isobutane 75-28-5 sn 1040

Monoethanolamine 141-43-5 sn 0835

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

Isobutane 75-28-5 Present

Monoethanolamine 141-43-5 Present

**U.S. - Rhode Island - Hazardous Substance List**

Monoethanolamine 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**

Professional EASY-OFF® Fume Free Oven Cleaner - Aerosol - 24 oz. - 363915v6.0

**Issue date**

30-Sept-2013

**Effective date**

15-May-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.