

## 1. Product and Company Identification

**Product Name** RESOLVE® High Traffic Area Foam Carpet Cleaner  
**CAS #** Mixture

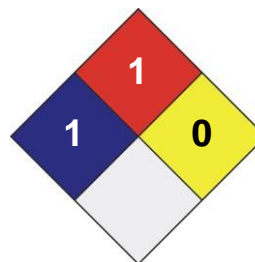
**This MSDS is designed for workplace employees, emergency personnel and for other conditions and situations where there is a greater potential for large-scale or prolonged exposure, in accordance with requirements of the Canadian Workplace Hazardous Materials Information System (WHMIS).  
 This MSDS 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** Carpet care

**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

<b>HEALTH</b>	* 1
<b>FLAMMABILITY</b>	1
<b>PHYSICAL HAZARD</b>	0
<b>PERSONAL PROTECTION</b>	B



## 2. Hazards Identification

**Emergency Overview** CAUTION  
 CONTENTS UNDER PRESSURE.  
 CONTAINER MAY EXPLODE IF HEATED.  
 DO NOT puncture.  
 DO NOT burn.  
 Store away from heat.

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** May cause irritation.  
**Inhalation** May cause respiratory tract irritation.  
**Ingestion** May cause stomach distress, nausea or vomiting.

**Target organs** Skin. Eyes.

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

**Signs and symptoms** Symptoms may include redness, oedema, drying, defatting and cracking of the skin.  
 Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

**Potential environmental effects** See section 12.

## 3. Composition/Information on Ingredients

Components	CAS #	Percent
Butane	106-97-8	1 - 5

Components	CAS #	Percent
Propane	74-98-6	1 - 5
Alcohols, C12-16, ethoxylated	68551-12-2	0.5 - 1.5

#### 4. First Aid Measures

##### First aid procedures

**Eye contact** If in eyes, IMMEDIATELY rinse with plenty of water. Remove contact lenses and continue to rinse eyes for at least 15 minutes. If irritation persists, get medical attention.

**Skin contact** Wash contaminated skin with soap and water. Get medical attention if symptoms occur.

**Inhalation** Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms occur.

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).

**Ingestion** Wash out mouth with water.  
Get medical attention if symptoms occur.  
Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

##### Notes to physician

Symptoms may be delayed.

##### General advice

Avoid contact with eyes and skin. Keep out of reach of children. Immediate medical attention is required. 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. If you feel unwell, seek medical advice (show the label where possible).

#### 5. Fire Fighting Measures

##### Flammable properties

Aerosol flame extension less than 15 cm.

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

##### Extinguishing media

**Suitable extinguishing media** Carbon dioxide. Water spray. Foam. Dry chemical powder.

**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 sulphur.

##### 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. Never return spills in original containers for re-use.

## 7. Handling and Storage

**Handling**

CAUTION  
CONTAINER MAY EXPLODE IF HEATED.  
Contents under pressure.  
Avoid contact with eyes, skin and clothing.  
Ensure adequate ventilation.  
Avoid breathing vapours or mists.  
Do not ingest.  
Read the entire label before using this product.  
Use good industrial hygiene practices in handling this material.  
Do not pierce or burn after use.  
When using RESOLVE® EASY CLEAN PRO Carpet Brush, direct aerosol away from face when loading the device and replacing the spray cap to can. Contains no phosphorus.

**Storage**

Keep out of reach of children.  
Keep away from heat, sparks, and flame.  
Do not puncture or incinerate container.  
DO NOT expose to heat or store at temperatures above 120°F (49°C) as the container may burst.  
Store in a cool dry place inaccessible to children and pets.  
Store away from direct sunlight.

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

**Occupational exposure limits****US. ACGIH Threshold Limit Values****Components****Type****Value**

Butane (CAS 106-97-8)

STEL

1000 ppm

**Exposure limit values**

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**

Not normally required under normal use conditions.  
Safety glasses with side-shields or full eye & face protection should be worn if risk assessment indicates this is necessary for the workplace or emergency responders.

**Hand protection**

No special requirements under normal use conditions.  
Chemical resistant, impervious gloves should be worn if risk assessment indicates this is necessary for the workplace or emergency responders.

**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**

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.  
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**

White. Opaque.

<b>Form</b>	Aerosol.
<b>Odour</b>	Characteristic
<b>Odour threshold</b>	Not available.
<b>Physical state</b>	Gas.
<b>pH</b>	10 - 11 (Concentrate)
<b>Freezing point</b>	Not available.
<b>Boiling point</b>	Not available.
<b>Pour point</b>	Not available.
<b>Evaporation Rate</b>	Not available
<b>Flash point</b>	Not available
<b>Auto-ignition temperature</b>	Not available.
<b>Flammability Limits in Air, Upper, % by Volume</b>	Not available.
<b>Flammability Limits in Air, Lower, % by Volume</b>	Not available.
<b>Vapour pressure</b>	Not available.
<b>Vapour density</b>	Not available.
<b>Specific gravity</b>	1 to 1.01 g/cm <sup>3</sup>
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Bulk density</b>	8.35 - 8.43 lb/gal
<b>Solubility (Water)</b>	Not available.
<b>Relative density</b>	Not available.
<b>Viscosity</b>	Not available.
<b>VOC</b>	Not available
<b>Percent volatile</b>	Not available

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## 10. Stability and Reactivity

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<b>Reactivity</b>	This product may react with strong acids. DO NOT MIX WITH BLEACH or use in conjunction with other household products.
<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>	Avoid temperatures above 50°C / 122°F. Exposure to moisture. Keep from freezing.
<b>Incompatible materials</b>	Acids. Caustics.
<b>Hazardous decomposition products</b>	May include and are not limited to: Oxides of carbon. Oxides of sulphur.

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## 11. Toxicological Information

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### Toxicological data

Components	Species	Test results
Alcohols, C12-16, ethoxylated (CAS 68551-12-2)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	>= 2000 mg/kg
<i>Oral</i>		
LD50	Rat	1380 mg/kg
<b>LC50</b>		
Not available.		

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Components	Species	Test results
Butane (CAS 106-97-8)		
<b>Acute</b>		
<i>Inhalation</i>		
LC50	Mouse	680 mg/L, 2 Hours
	Rat	658 mg/l/4h
<b>LD50</b>		
Not available.		
Propane (CAS 74-98-6)		
<b>Acute</b>		
<i>Inhalation</i>		
LC50	Rat	> 1442.8 mg/L, 15 Minutes
<b>LD50</b>		
Not available.		
<b>Effects of acute exposure</b>		
<b>Eye contact</b>	Moderately irritating to the eyes.	
<b>Skin contact</b>	May cause irritation.	
<b>Inhalation</b>	May cause respiratory tract irritation.	
<b>Ingestion</b>	May cause stomach distress, nausea or vomiting.	
<b>Sensitisation</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

<b>Ecotoxicity</b>	Not available.
<b>Persistence and 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>	
Butane	2.89
Propane	2.36
<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 discarded in the trash or recycled where appropriate.
<b>Waste from residues / unused products</b>	Not available
<b>Contaminated packaging</b>	Not available

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## 14. Transport Information

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### U.S. Department of Transportation (DOT)

UN 1950, Aerosols, Class 2.1, Re-classed as Limited Quantity

### Transportation of Dangerous Goods (TDG - Canada)

UN 1950, AEROSOLS, Class 2.1, Re-classed as Limited Quantity

### IMDG (Marine Transport)

UN 1950, AEROSOLS, Class 2.1, Re-classed as Limited Quantity

### IATA/ICAO (Air)

UN1950, Aerosols, Non-Flammable, Class 2.1, Limited Quantity, Consumer Commodity, ID 8000 if acceptable to air carrier.

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## 13. Regulatory Information

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**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 DSL Challenge Substances: Listed substance

Butane (CAS 106-97-8) Listed.

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

Butane (CAS 106-97-8) 1 tonnes

Propane (CAS 74-98-6) 1 tonnes

### Canada WHMIS Ingredient Disclosure: Threshold limits

Butane (CAS 106-97-8) 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)

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## 14. Other Information

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### 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

RESOLVE® High Traffic Area Foam Carpet Cleaner, 623 g – 8021831v1.0

### Issue date

09-September-2013

<b>Effective date</b>	01-September-2013
<b>Expiry Date</b>	01-September-2016
<b>Prepared by</b>	Reckitt Benckiser Regulatory Department Phone: 800-333-3899
<b>Other Information</b>	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.