

1. Product and Company Identification

Product Name RESOLVE® High Traffic Area Foam Carpet Cleaner

CAS # Mixture

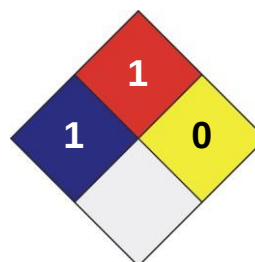
This MSDS is designed for workplace employees, emergency personnel and for other conditions and situations where there is a greater potential for large-scale or prolonged exposure, in accordance with requirements of the Canadian Workplace Hazardous Materials Information System (WHMIS).
This MSDS is not 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

HEALTH	* 1
FLAMMABILITY	1
PHYSICAL HAZARD	0
PERSONAL PROTECTION	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.

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.
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Notes to physician

General advice	Symptoms may be delayed. 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).
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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.

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.

Form	Aerosol.
Odour	Characteristic
Odour threshold	Not available.
Physical state	Gas.
pH	10 - 11 (Concentrate)
Freezing point	Not available.
Boiling point	Not available.
Pour point	Not available.
Evaporation Rate	Not available
Flash point	Not available
Auto-ignition temperature	Not available.
Flammability Limits in Air, Upper, % by Volume	Not available.
Flammability Limits in Air, Lower, % by Volume	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Specific gravity	1 to 1.01 g/cm3
Partition coefficient (n-octanol/water)	Not available.
Bulk density	8.35 - 8.43 lb/gal
Solubility (Water)	Not available.
Relative density	Not available.
Viscosity	Not available.
VOC	Not available
Percent volatile	Not available

10. Stability and Reactivity

Reactivity	This product may react with strong acids. DO NOT MIX WITH BLEACH or use in conjunction with other household products.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Avoid temperatures above 50°C / 122°F. Exposure to moisture. Keep from freezing.
Incompatible materials	Acids. Caustics.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon. Oxides of sulphur.

11. Toxicological Information

Toxicological data

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

Components	Species	Test results
Butane (CAS 106-97-8)		
Acute		
<i>Inhalation</i>		
LC50	Mouse	680 mg/L, 2 Hours
	Rat	658 mg/l/4h
LD50		
Not available.		
Propane (CAS 74-98-6)		
Acute		
<i>Inhalation</i>		
LC50	Rat	> 1442.8 mg/L, 15 Minutes
LD50		
Not available.		
Effects of acute exposure		
Eye contact	Moderately irritating to the eyes.	
Skin contact	May cause irritation.	
Inhalation	May cause respiratory tract irritation.	
Ingestion	May cause stomach distress, nausea or vomiting.	
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	Not available.
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	
Butane	2.89
Propane	2.36
Chemical fate information	Not available.

13. Disposal Considerations

Disposal instructions	Dispose in accordance with all applicable regulations. Empty container can be discarded in the trash or 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, 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.

13. 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 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)

14. 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

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

Issue date

09-September-2013

Effective date	01-September-2013
Expiry Date	01-September-2016
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.