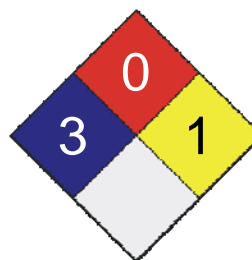


## 1. Product and Company Identification

**Product Name** RESOLVE® Dual Power  
**UPC CODES** Refer to Section 16  
**CAS #** Mixture  
**Product Use** Stain remover  
**Distributed by** Reckitt Benckiser (Canada) Inc.  
 1680 Tech Avenue Unit #2  
 Mississauga, ON L4W 5S9  
 In Case of Emergency: 1-800-888-0192  
 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	/ 3
Flammability	0
Physical Hazard	1
Personal Protection	B



## 2. Hazards Identification

### Emergency Overview

**DANGER**  
 Causes burns.  
 Do not get in eyes, on skin or on clothing.  
**DO NOT** swallow.  
 Handle with care.  
 Wash hands immediately after use.  
 To open, squeeze tabs and turn cap.

Keep out of reach of children.

### Potential short term health effects

#### Routes of exposure

Eye, Skin contact, Inhalation, Ingestion.

#### Eyes

Corrosive to eyes.

#### Skin

Skin irritant.  
 Not expected to be a skin sensitizer.

#### Inhalation

Inhalation toxicity not determined.

#### Ingestion

May cause gastrointestinal upset or irritation if ingested.

### Target organs

Eyes. Respiratory system. Skin.

### 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.

## 3. Composition/Information on Ingredients

Ingredient(s)	CAS #	Percent
Subtilisin protease enzyme	9014-01-1	0 - 0.1
Sodium tetraborate decahydrate	1303-96-4	0.1 - 1
Sodium citrate	6132-04-3	1 - 5
Hydrogen peroxide	7722-84-1	1 - 5
1,2-Propylene glycol	57-55-6	1 - 5
Alcohols, C12-16, ethoxylated	68551-12-2	7 - 13

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## 4. First Aid Measures

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### First aid procedures

<b>Eye contact</b>	In case of eye contact, IMMEDIATELY rinse eyes thoroughly with plenty of water. Remove any contact lenses and continue rinsing eyes for at least 15 minutes. Get medical attention immediately.
<b>Skin contact</b>	In case of skin contact, wash with soap and water. If irritation persists, get medical attention. If on clothes, remove clothes.
<b>Inhalation</b>	Remove to fresh air.
<b>Ingestion</b>	If swallowed, rinse mouth and drink a glass of water. Do not induce vomiting. IMMEDIATELY contact a physician or Poison Control Centre.

### Notes to physician

Treat patient symptomatically.

### General advice

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.

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## 5. Fire-fighting Measures

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### Flammable properties

Not flammable by WHMIS criteria.

### Extinguishing media

**Suitable extinguishing media** Water spray. Foam. Dry chemical.

**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

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## 6. Accidental Release Measures

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### Personal precautions

Avoid contact with eyes.  
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.

### Methods for containment

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.

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## 7. Handling and Storage

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### Handling

DANGER  
Do not get in eyes or on skin.  
Do not ingest.  
Wash hands immediately after use.  
When using do not eat or drink.  
Use according to package label instructions.

### Storage

Keep out of reach of children.  
Store in a closed container away from incompatible materials.  
Store in a cool dry place inaccessible to children and pets.

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## 8. Exposure Controls / Personal Protection

### Exposure limit values

Ingredient(s)	Exposure limit values
1,2-Propylene glycol	<b>ACGIH-TLV</b> Not established
Alcohols, C12-16, ethoxylated	<b>ACGIH-TLV</b> Not established
Hydrogen peroxide	<b>ACGIH-TLV</b> TWA: 1 ppm
Sodium citrate	<b>ACGIH-TLV</b> Not established
Sodium tetraborate decahydrate	<b>ACGIH-TLV</b> TWA: 2 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup>
Subtilisin protease enzyme	<b>ACGIH-TLV</b> Ceiling: 0.0001 mg/m <sup>3</sup>

### Engineering controls

General ventilation normally adequate.

### Personal protective equipment

#### Eye/Face protection

Safety glasses or goggles.  
Emergency responders should wear full eye and face protection.

#### Hand protection

Impervious gloves.  
Avoid contact with the skin.  
Emergency responders should wear impermeable gloves.

#### 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

Avoid inhalation of dust.  
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	gel
Colour	Pink (Chamber A) Clear (Chamber B)
Form	Fluid
Odour	Floral
Odour threshold	Not available
Physical state	Liquid
pH	3.5-4.5 (Pink), 8.0-9.0 (Clear), 6.5 (Final product)
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, lower, % by volume	Not available

<b>Flammability Limits in Air, Upper, % by Volume</b>	Not available
<b>Vapour pressure</b>	Not available
<b>Vapour density</b>	Not available
<b>Specific gravity</b>	1.01
<b>Octanol/water coefficient</b>	Not available
<b>Solubility (H2O)</b>	Complete

## 10. Stability and Reactivity

<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Conditions to avoid</b>	DO NOT MIX WITH BLEACH or use in conjunction with other household products.
<b>Incompatible materials</b>	Oxidizers. Caustics.
<b>Hazardous decomposition products</b>	May include and are not limited to: Oxides of carbon. Oxides of nitrogen.
<b>Possibility of hazardous reactions</b>	Hazardous polymerisation does not occur.

## 11. Toxicological Information

### Component analysis - LC50

Ingredient(s)	LC50
1,2-Propylene glycol	Not available
Alcohols, C12-16, ethoxylated	Not available
Hydrogen peroxide	Not available
Sodium citrate	Not available
Sodium tetraborate decahydrate	Not available
Subtilisin protease enzyme	Not available

### Component analysis - Oral LD50

Ingredient(s)	LD50
1,2-Propylene glycol	14800 mg/kg rabbit; 20000 mg/kg rat
Alcohols, C12-16, ethoxylated	1380 mg/kg rat
Hydrogen peroxide	75 mg/kg rat; 2000 mg/kg mouse
Sodium citrate	Not available
Sodium tetraborate decahydrate	2660 mg/kg rat; 5330 mg/kg guinea pig
Subtilisin protease enzyme	2000 mg/kg rat

### Effects of acute exposure

<b>Eye</b>	Corrosive to eyes.
<b>Skin</b>	Skin irritant. Not expected to be a skin sensitizer.
<b>Inhalation</b>	Inhalation toxicity not determined.
<b>Ingestion</b>	May cause gastrointestinal upset or irritation if ingested.
<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.

#### ACGIH - Threshold Limit Values - Carcinogens

Hydrogen peroxide	7722-84-1	A3 - Confirmed animal carcinogen with unknown relevance to humans.
Sodium tetraborate decahydrate	1303-96-4	A4 - Not Classifiable as a Human Carcinogen

#### IARC - Group 3 (Not Classifiable)

Hydrogen peroxide	7722-84-1	Monograph 71 [1999]; Supplement 7 [1987]; Monograph 36 [1985]
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<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>Synergistic Materials</b>	Not available

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## 12. Ecological Information

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**Ecotoxicity** Components of this product have been identified as having potential environmental concerns.

### Ecotoxicity - Freshwater Algae - Acute Toxicity Data

1,2-Propylene glycol	57-55-6	96 Hr EC50 Pseudokirchneriella subcapitata: 19000 mg/L
Hydrogen peroxide	7722-84-1	72 Hr EC50 Chlorella vulgaris: 2.5 mg/L

### Ecotoxicity - Freshwater Fish - Acute Toxicity Data

1,2-Propylene glycol	57-55-6	96 Hr LC50 Oncorhynchus mykiss: 51600 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 41-47 ml/L [static]; 96 Hr LC50 Pimephales promelas: 51400 mg/L [static]; 96 Hr LC50 Pimephales promelas: 710 mg/L
Hydrogen peroxide	7722-84-1	96 Hr LC50 Pimephales promelas: 16.4 mg/L; 96 Hr LC50 Lepomis macrochirus: 18-56 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 10.0-32.0 mg/L [static]

### Ecotoxicity - Water Flea - Acute Toxicity Data

1,2-Propylene glycol	57-55-6	24 Hr EC50 Daphnia magna: >10000 mg/L; 48 Hr EC50 Daphnia magna: >1000 mg/L [Static]
Hydrogen peroxide	7722-84-1	24 Hr EC50 Daphnia magna: 7.7 mg/L; 48 Hr EC50 Daphnia magna: 18 - 32 mg/L [Static]

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

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## 13. Disposal Considerations

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<b>Waste codes</b>	Not available
<b>Disposal instructions</b>	Dispose in accordance with all applicable regulations.
<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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<b>UN/ID N.o.</b>	Not applicable
<b>U.S. Department of Transportation (DOT): Classification:</b>	Not regulated
<b>Proper shipping name</b>	Not applicable
<b>U.S. DOT Hazard Class</b>	Not applicable
<b>Subsidiary Risk</b>	Not applicable
<b>Packing group</b>	Not applicable
<b>DOT RQ (lbs)</b>	Not applicable
<b>ERG NO</b>	Not applicable

**Transportation of Dangerous Goods (TDG - Canada): Classification:** Not regulated

**Proper shipping name** Not applicable

**Status** Not applicable

**Packing group** Not applicable

**IMDG (Marine Transport): Classification:** Not regulated

**Proper shipping name** Not applicable

**Class** Not applicable

**Subsidiary Risk** Not applicable

**Packing group** Not applicable

**IMDG Page** Not applicable

**Marine pollutant** Not applicable

**EMS** Not applicable

**MFAG** Not applicable

**Maximum Quantity** Not applicable

**IATA/ICAO (Air): Classification:** Not regulated

**Proper shipping name** Not applicable

**Class** Not applicable

**Subsidiary Risk:** Not applicable

**Packing group** Not applicable

**Maximum Quantity** Not applicable

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## 15. 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 - WHMIS - Ingredient Disclosure List**

1,2-Propylene glycol	57-55-6	1 %
Hydrogen peroxide	7722-84-1	1 %
Sodium tetraborate decahydrate	1303-96-4	1 %

**WHMIS classification**

Exempt - Consumer product

**Inventory Status**

<b>Country(s) or region</b>	<b>Inventory Name</b>	<b>On Inventory (Yes/No)*</b>
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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## 16. 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**

62338-77667 - 650 mL - RESOLVE® Dual Power - 0068261/0068264

**Issue date**

24-Aug-2010

**Effective Date**

15-Aug-2010

**Expiry Date**

15-Aug-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.