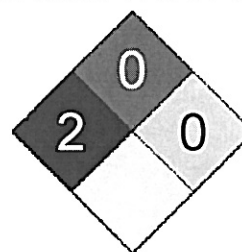


### 1. Product and Company Identification

**Product Name** RESOLVE® (formerly SPRAY'N WASH®) Laundry Stain Remover  
**UPC CODES** Refer to Section 16  
**CAS #** Mixture  
**Product use** Stain remover  
**Distributed by** Reckitt Benckiser  
 Morris Corporate Center IV  
 399 Interpace Parkway  
 P.O. Box 225  
 Parsippany, NJ 07054-0225  
 In Case of Emergency: 1-800-228-4722  
 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	0
Physical Hazard	0
Personal Protection	B



### 2. Hazards Identification

**Emergency overview** CAUTION  
 EYE AND SKIN IRRITANT.  
 May be harmful if directly inhaled.  
 DO NOT get in eyes, on skin or inhale spray.  
 DO NOT treat garments while wearing.  
 KEEP OUT OF REACH OF CHILDREN.

**Potential short term health effects**  
**Routes of exposure** Eye, Skin contact, Inhalation, Ingestion.  
**Eyes** Eye irritant.  
**Skin** Skin irritant.  
**Inhalation** Inhalation toxicity not determined.  
**Ingestion** Not orally toxic.

**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, edema, 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
Alcohols, C12-16, ethoxylated	68551-12-2	2.5 - 10
1,2-Propanediol	57-55-6	1 - 2.5
Sodium citrate	6132-04-3	1 - 2.5
Subtilisin carlsburg	9014-01-1	0 - 0.1

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## 4. First Aid Measures

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### 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 develops, get medical attention.
<b>Skin contact</b>	If on skin, wash with soap and water. If Irritation develops, get medical attention.
<b>Inhalation</b>	If inhaled and irritation or an allergic reaction occurs, get medical attention.
<b>Ingestion</b>	If swallowed, rinse mouth and drink a glass of water. Call a physician or Poison Control Centre.
<b>Notes to physician</b>	Symptoms may be delayed.
<b>General advice</b>	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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<b>Flammable properties</b>	Not flammable by OSHA criteria.
<b>Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Treat for surrounding material.
<b>Unsuitable extinguishing media</b>	Not available
<b>Protection of firefighters</b>	
<b>Specific hazards arising from the chemical</b>	Not available
<b>Protective equipment for firefighters</b>	Firefighters should wear full protective clothing including self contained breathing apparatus.
<b>Hazardous combustion products</b>	May include and are not limited to: Oxides of carbon. Oxides of nitrogen.
<b>Explosion data</b>	
<b>Sensitivity to mechanical impact</b>	Not available
<b>Sensitivity to static discharge</b>	Not available

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## 6. Accidental Release Measures

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<b>Personal precautions</b>	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.
<b>Methods for containment</b>	Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.
<b>Methods for cleaning up</b>	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.

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## 7. Handling and Storage

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<b>Handling</b>	CAUTION EYE AND SKIN IRRITANT. DO NOT get in eyes, on skin or inhale spray. DO NOT treat garment while wearing. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.
<b>Storage</b>	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 limits

Ingredient(s)	Exposure Limits
1,2-Propanediol	<b>ACGIH-TLV</b> Not established <b>OSHA-PEL</b> Not established
Alcohols, C12-16, ethoxylated	<b>ACGIH-TLV</b> Not established <b>OSHA-PEL</b> Not established
Sodium citrate	<b>ACGIH-TLV</b> Not established <b>OSHA-PEL</b> Not established
Subtilisin carlsburg	<b>ACGIH-TLV</b> Ceiling: 0.0001 mg/m <sup>3</sup> <b>OSHA-PEL</b> Not established

### Engineering controls

General ventilation normally adequate.

### Personal protective equipment

#### Eye / face protection

If splashing is likely to occur or for occupational exposures, wear appropriate eye protection.  
 Emergency responders should wear full eye and face protection.

#### Hand protection

Avoid contact with the skin. Wear rubber gloves if repeated or prolonged contact with skin is possible.  
 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

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

<b>Appearance</b>	Clear.
<b>Color</b>	Colorless
<b>Form</b>	Liquid
<b>Odor</b>	Perfume
<b>Odor threshold</b>	Not available
<b>Physical state</b>	Liquid
<b>pH</b>	8.5 - 9.5
<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

Flammability limits in air, lower, % by volume	Not available
Flammability limits in air, upper, % by volume	Not available
Vapor pressure	Not available
Vapor density	Not available
Specific gravity	1.004 - 1.008
Octanol/water coefficient	Not available
Solubility (H2O)	Complete

## 10. Stability and Reactivity

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

## 11. Toxicological Information

### Component analysis - LC50

Ingredient(s)	LC50
1,2-Propanediol	Not available
Alcohols, C12-16, ethoxylated	Not available
Sodium citrate	Not available
Subtilisin carlsburg	Not available

### Component analysis - Oral LD50

Ingredient(s)	LD50
1,2-Propanediol	14800 mg/kg rabbit; 20000 mg/kg rat
Alcohols, C12-16, ethoxylated	1380 mg/kg rat
Sodium citrate	Not available
Subtilisin carlsburg	Not available

### Effects of acute exposure

Eye	Eye irritant.
Skin	Skin irritant.
Inhalation	Inhalation toxicity not determined.
Ingestion	Not orally toxic.
Sensitization	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.
Synergistic Materials	Not available

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## 12. Ecological Information

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**Ecotoxicity** See below

**Ecotoxicity - Freshwater Algae - Acute Toxicity Data**

1,2-Propanediol 57-55-6 96 Hr EC50 Pseudokirchneriella subcapitata: 19000 mg/L

**Ecotoxicity - Freshwater Fish - Acute Toxicity Data**

1,2-Propanediol 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

**Ecotoxicity - Water Flea - Acute Toxicity Data**

1,2-Propanediol 57-55-6 24 Hr EC50 Daphnia magna: >10000 mg/L; 48 Hr EC50 Daphnia magna: >1000 mg/L [Static]

**Environmental effects** Not available

**Aquatic toxicity** Not available

**Persistence / degradability** Not available

**Bioaccumulation / accumulation** Not available

**Partition coefficient** Not available

**Mobility in environmental media** Not available

**Chemical fate information** Not available

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## 13. Disposal Considerations

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**Waste codes** Not available

**Disposal instructions** Dispose in accordance with all applicable regulations.

**Waste from residues / unused products** Not available

**Contaminated packaging** Not available

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## 14. Transport Information

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**UN/ID N.o.** Not applicable

**U.S. Department of Transportation (DOT): Classification:** Not regulated

**Proper shipping name** Not applicable

**U.S. DOT Hazard Class** Not applicable

**Subsidiary Risk** Not applicable

**Packing group** Not applicable

**DOT RQ (lbs)** Not applicable

**ERG NO** 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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**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.

**Occupational Safety and Health Administration (OSHA)**

29 CFR 1910.1200 hazardous chemical Yes

**CERCLA (Superfund) reportable quantity**

None

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

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

Section 302 extremely hazardous substance No

Section 311 hazardous chemical Yes

Clean Air Act (CAA) Not available

Clean Water Act (CWA) Not available

**State regulations**

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

**U.S. - California - 8 CCR Section 339 - Director's List of Hazardous Substances**

Subtilisin carlsburg 9014-01-1 Present

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

1,2-Propanediol 57-55-6 Present

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

1,2-Propanediol 57-55-6 sn 3595

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

1,2-Propanediol 57-55-6 Present

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

1,2-Propanediol 57-55-6 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)

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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**

62338-74949 - 30 oz. - RESOLVE® (formerly SPRAY'N WASH®) Laundry Stain Remover - Trigger - 0137240

62338-75551 - 60 oz. - RESOLVE® (formerly SPRAY'N WASH®) Laundry Stain Remover - Refill - 0137240

62338-00230 - 22 oz. - RESOLVE® (formerly SPRAY'N WASH®) Laundry Stain Remover - Trigger - 0137240

62338-01445 - 30 oz. - RESOLVE® (formerly SPRAY'N WASH®) Laundry Stain Remover - Lemon Power™ Trigger - 0137239

**Issue date**

20-Aug-2010

**Effective date**

15-Aug-2010

**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.