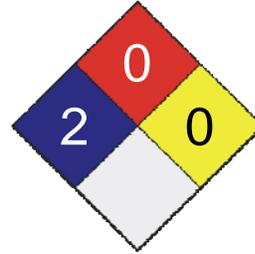


1. Product and Company Identification

**Product Name** RESOLVE ® (formerly SPRAY'N WASH®) Pre Treat STAIN STICK®  
**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.  
 Do not get in eyes or on skin.  
 Wash hands immediately after use.  
  
 KEEP OUT OF REACH OF CHILDREN.

**Potential short term health effects**  
**Routes of exposure** Eye, Skin contact, Inhalation, Ingestion.  
**Eyes** Irritating to eyes.  
**Skin** Irritating to skin.  
 Not expected to be a skin sensitizer.  
**Inhalation** None expected during normal conditions of use.  
**Ingestion** Health injuries are not known or expected under normal use.  
**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
1,2-Propanediol	57-55-6	20 - 40
Alcohols, C12-16, ethoxylated	68551-12-2	20 - 40
Benzenesulfonic acid, C10-16-alkyl derivatives	68584-22-5	2.5 - 10
Octadecanoic acid	57-11-4	10 - 20
Sodium hydroxide	1310-73-2	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>	In case of eye contact, IMMEDIATELY rinse eyes with water. Remove any contact lenses and continue rinsing eyes for at least 15 minutes. If irritation occurs, get medical attention.
<b>Skin contact</b>	If case of skin contact, wash with plenty of soap and water. If irritation persists, get medical attention.
<b>Inhalation</b>	Move to fresh air.
<b>Ingestion</b>	Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician or Poison Control Centre immediately.

### 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 OSHA criteria.

### Extinguishing media

**Suitable extinguishing media** Treat for surrounding material.

**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.

### 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

Pick up and discard.

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## 7. Handling and Storage

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### Handling

Do not get in eyes or on skin.  
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 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
Benzenesulfonic acid, C10-16-alkyl derivatives	<b>ACGIH-TLV</b> Not established <b>OSHA-PEL</b> Not established
Octadecanoic acid	<b>ACGIH-TLV</b> Not established <b>OSHA-PEL</b> Not established
Sodium hydroxide	<b>ACGIH-TLV</b> Ceiling: 2 mg/m <sup>3</sup> <b>OSHA-PEL</b> TWA: 2 mg/m <sup>3</sup>
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

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

#### Hand protection

Protective gloves are recommended for prolonged or repeated exposure.  
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

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.

#### 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	Solid.
Color	Opaque white
Form	Solid.
Odor	surfactant
Odor threshold	Not available
Physical state	Solid

<b>pH</b>	8.7 - 9.8 (1%)
<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>	> 199.94 °F (> 93.3 °C)
<b>Auto-ignition temperature</b>	Not available
<b>Flammability limits in air, lower, % by volume</b>	Not applicable
<b>Flammability limits in air, upper, % by volume</b>	Not applicable
<b>Vapor pressure</b>	Not available
<b>Vapor density</b>	Not available
<b>Specific gravity</b>	0.985 - 0.995
<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.
<b>Possibility of hazardous reactions</b>	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
Benzenesulfonic acid, C10-16-alkyl derivatives	Not available
Octadecanoic acid	Not available
Sodium hydroxide	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
Benzenesulfonic acid, C10-16-alkyl derivatives	530 mg/kg rat
Octadecanoic acid	5000 mg/kg rat
Sodium hydroxide	Not available
Subtilisin carlsburg	Not available

### Effects of acute exposure

<b>Eye</b>	Irritating to eyes.
<b>Skin</b>	Irritating to skin. Not expected to be a skin sensitizer.
<b>Inhalation</b>	None expected during normal conditions of use.
<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>Synergistic Materials</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**

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  
 Benzenesulfonic acid, C10-16-alkyl derivatives 68584-22-5 96 Hr LC50 Oncorhynchus mykiss: 3 mg/L [static]  
 Sodium hydroxide 1310-73-2 96 Hr LC50 Oncorhynchus mykiss: 45.4 mg/L [static]

**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]  
 Benzenesulfonic acid, C10-16-alkyl derivatives 68584-22-5 48 Hr EC50 Daphnia magna: 2.9 mg/L

<b>Environmental effects</b>	Not available
<b>Aquatic toxicity</b>	Not available
<b>Persistence / 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

## 13. Disposal Considerations

<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

## 14. Transport Information

<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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**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. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities**

Sodium hydroxide 1310-73-2 1000 Lb final RQ; 454 kg final RQ

**U.S. - CWA (Clean Water Act) - Hazardous Substances**

Sodium hydroxide 1310-73-2 Present

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

**29 CFR 1910.1200 hazardous chemical** Yes

**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**

Sodium hydroxide 1310-73-2 Present  
 Subtilisin carlsburg 9014-01-1 Present

**U.S. - Louisiana - Reportable Quantity List for Pollutants**

Sodium hydroxide 1310-73-2 1000 Lb final RQ; 454 kg final RQ

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

Sodium hydroxide 1310-73-2 Present

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

1,2-Propanediol 57-55-6 Present  
 Sodium hydroxide 1310-73-2 Present

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

1,2-Propanediol 57-55-6 sn 3595  
 Sodium hydroxide 1310-73-2 sn 1706

**U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances**

Sodium hydroxide 1310-73-2 1000 Lb RQ (air); 100 lb RQ (land/water)

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

1,2-Propanediol 57-55-6 Present  
 Sodium hydroxide 1310-73-2 Environmental hazard

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

1,2-Propanediol 57-55-6 Flammable  
 Sodium hydroxide 1310-73-2 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**

62338-81996 - 3 oz. - RESOLVE ® (formerly SPRAY'N WASH®) Pre Treat STAIN STICK® - 0173721

**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.