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

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.
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

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,2-Propanediol</td>
<td>57-55-6</td>
<td>20 - 40</td>
</tr>
<tr>
<td>Alcohols, C12-16, ethoxylated</td>
<td>68551-12-2</td>
<td>20 - 40</td>
</tr>
<tr>
<td>Benzenesulfonic acid, C10-16-alkyl derivatives</td>
<td>68584-22-5</td>
<td>2.5 - 10</td>
</tr>
<tr>
<td>Octadecanoic acid</td>
<td>57-11-4</td>
<td>10 - 20</td>
</tr>
<tr>
<td>Sodium hydroxide</td>
<td>1310-73-2</td>
<td>1 - 2.5</td>
</tr>
<tr>
<td>Subtilisin carlsburg</td>
<td>9014-01-1</td>
<td>0 - 0.1</td>
</tr>
</tbody>
</table>
4. First Aid Measures

First aid procedures

Eye contact
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.

Skin contact
If case of skin contact, wash with plenty of soap and water. If irritation persists, get medical attention.

Inhalation
Move to fresh air.

Ingestion
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.

5. Fire Fighting Measures

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

6. Accidental Release Measures

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.

7. Handling and Storage

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.
8. Exposure Controls / Personal Protection

<table>
<thead>
<tr>
<th>Exposure limits Ingredient(s)</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,2-Propanediol</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ACGIH-TLV</td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td></td>
<td>OSHA-PEL</td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td>Alcohols, C12-16, ethoxylated</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ACGIH-TLV</td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td></td>
<td>OSHA-PEL</td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td>Benzenesulfonic acid, C10-16-alkyl derivatives</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ACGIH-TLV</td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td></td>
<td>OSHA-PEL</td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td>Octadecanoic acid</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ACGIH-TLV</td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td></td>
<td>OSHA-PEL</td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td>Sodium hydroxide</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ACGIH-TLV</td>
</tr>
<tr>
<td></td>
<td>Ceiling: 2 mg/m³</td>
</tr>
<tr>
<td></td>
<td>OSHA-PEL</td>
</tr>
<tr>
<td></td>
<td>TWA: 2 mg/m³</td>
</tr>
<tr>
<td>Subtilisin carlsburg</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ACGIH-TLV</td>
</tr>
<tr>
<td></td>
<td>Ceiling: 0.0001 mg/m³</td>
</tr>
<tr>
<td></td>
<td>OSHA-PEL</td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
</tbody>
</table>

Engineering controls
General ventilation normally adequate.

Personal protective equipment

<table>
<thead>
<tr>
<th>Eye / face protection</th>
<th>Safety glasses recommended. Emergency responders should wear full eye and face protection.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hand protection</td>
<td>Protective gloves are recommended for prolonged or repeated exposure. Emergency responders should wear impermeable gloves.</td>
</tr>
<tr>
<td>Skin and body protection</td>
<td>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.</td>
</tr>
<tr>
<td>Respiratory protection</td>
<td>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.</td>
</tr>
<tr>
<td>General hygiene considerations</td>
<td>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.</td>
</tr>
</tbody>
</table>

9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Solid.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Opaque white</td>
</tr>
<tr>
<td>Form</td>
<td>Solid.</td>
</tr>
<tr>
<td>Odor</td>
<td>surfactant</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>Physical state</td>
<td>Solid</td>
</tr>
</tbody>
</table>
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.

Possibility of hazardous reactions
Hazardous polymerization does not occur.

11. Toxicological Information

Component analysis - LC50

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,2-Propanediol</td>
<td>Not available</td>
</tr>
<tr>
<td>Alcohols, C12-16, ethoxylated</td>
<td>Not available</td>
</tr>
<tr>
<td>Benzenesulfonic acid, C10-16-alkyl derivatives</td>
<td>Not available</td>
</tr>
<tr>
<td>Octadecanoic acid</td>
<td>Not available</td>
</tr>
<tr>
<td>Sodium hydroxide</td>
<td>Not available</td>
</tr>
<tr>
<td>Subtilisin carlsburg</td>
<td>Not available</td>
</tr>
</tbody>
</table>

Component analysis - Oral LD50

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>LD50</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,2-Propanediol</td>
<td>14800 mg/kg rabbit; 20000 mg/kg rat</td>
</tr>
<tr>
<td>Alcohols, C12-16, ethoxylated</td>
<td>1380 mg/kg rat</td>
</tr>
<tr>
<td>Benzenesulfonic acid, C10-16-alkyl derivatives</td>
<td>530 mg/kg rat</td>
</tr>
<tr>
<td>Octadecanoic acid</td>
<td>5000 mg/kg rat</td>
</tr>
<tr>
<td>Sodium hydroxide</td>
<td>Not available</td>
</tr>
<tr>
<td>Subtilisin carlsburg</td>
<td>Not available</td>
</tr>
</tbody>
</table>

Effects of acute exposure

Eye
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.

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

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

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

13. Disposal Considerations

Waste codes
Not available

Disposal instructions
Dispose in accordance with all applicable regulations.

Waste from residues / unused products
Not available

Contaminated packaging
Not available

14. Transport Information

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

15. Regulatory Information

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. Regulations

- **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

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

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.