

#### MATERIAL SAFETY DATA SHEET

### 1. Product and Company Identification

Product Name RESOLVE® (SPRAY'N WASH®) In-Wash Stain Remover

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 U.S. Government's Occupational Safety and Health Administration (OSHA).

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 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: 1-800-338-6167 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





#### 2. Hazards Identification

Emergency overview WARNING

Eye and skin irritant.

May be harmful if swallowed.

Do not get in eyes, on skin or ingest.

May be severely irritating to eyes. Wash hands after use. For sensitive skin, the use of

gloves is recommended.

KEEP OUT OF REACH OF CHILDREN.

Potential short term health effects

**Routes of exposure** Eye, Skin contact, Inhalation, Ingestion.

**Eyes** None expected during normal conditions of use.

May be severe eye irritant

Skin Skin irritant.

Not expected to be a skin sensitizer.

**Inhalation** None expected during normal conditions of use.

IngestionMay be harmful by ingestion.Target organsEyes. 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

vomitina.

OSHA Regulatory Status This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

Potential environmental effects See section 12.

3. Composition	/ Information	on Ingredients
or composition	,	on myround

Ingredient(s)	CAS#	Percent
Hydrogen peroxide	7722-84-1	2.5 - 10
Alcohols, C12-16, ethoxylated	68551-12-2	10 - 20
Benzenesulfonic acid, C10-16-alkyl derivatives	68584-22-5	10 - 20
Sodium hydroxide	1310-73-2	1 - 2.5

#### 4. First Aid Measures

First aid procedures

Eye contact If in eyes, IMMEDIATELY rinse eyes with plenty of water. Remove any contact lenses

and continue rinsing eyes for at least 15 minutes. If irritation persists, get medical

attention.

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

attention.

Inhalation Move person to fresh air. If the person feels unwell, call a physician or Poison Control

Center.

If swallowed, rinse mouth and drink a glass of water. Call a Physician or Poison Control Ingestion

Center. Do not induce vomiting.

Symptoms may be delayed. Notes to physician

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

**Explosion data** 

May include and are not limited to: Oxides of carbon.

Sensitivity to mechanical impact Not available Sensitivity to static discharge

Not available

#### 6. Accidental Release Measures

Personal precautions

Avoid contact with eves.

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

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 to original containers for re-use.

### 7. Handling and Storage

**Handling** Ensure adequate ventilation.

Do not get in eyes, on skin or ingest. When using do not eat or drink.

Wash hands before breaks and immediately after handling the product.

Use good industrial hygiene practices in handling this product.

Read and follow product label for instructions.

Storage Keep container tightly closed in a cool, dry and well-ventilated place.

Store in a cool dry place inaccessible to children and pets.

Store upright to prevent product leakage.

Store away from heat sources.

### 8. Exposure Controls / Personal Protection

Exposure limits		
Ingredient(s)	Exposure Limits	
Alcohols, C12-16, ethoxylated	ACGIH-TLV	
	Not established	
	OSHA-PEL	
	Not established	
Benzenesulfonic acid, C10-16-alkyl derivatives	ACGIH-TLV	
	Not established	
	OSHA-PEL	
	Not established	
Hydrogen peroxide	ACGIH-TLV	
	TWA: 1 ppm	
	OSHA-PEL	
	TWA: 1 ppm	
Sodium hydroxide	ACGIH-TLV	
	Ceiling: 2 mg/m3	
	OSHA-PEL	
	TWA: 2 mg/m3	

**Engineering controls** 

General ventilation normally adequate.

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** When handling in large quantities or responding to emergency situations, the use of

appropriate eye protection is recommended.

Emergency responders should wear full eye and face protection.

**Hand protection** For sensitive skin or prolonged use, wear rubber gloves.

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

Clear gel **Appearance** Blue Color **Form** Liquid Perfume Odor Not available Odor threshold Physical state Liquid

 $3.5 \pm 0.3$  (as is) pН Not available Freezing point **Boiling point** Not available Not available Pour point **Evaporation rate** Not available Not determined Flash point Not available **Auto-ignition temperature** Not available Flammability limits in air, lower, %

by volume

Flammability limits in air, upper, %

by volume

Not available

Not available Vapor pressure Not available Vapor density 1.04 ± 0.005 G/mL Specific gravity Octanol/water coefficient Not available

Solubility (H2O) Hiah

800 ± 100 Cps @ 25°C (Brookfield LV type, Spindle #31, 12 rpm) Viscosity

## 10. Stability and Reactivity

This product may react with oxidizing agents. Reactivity Possibility of hazardous reactions Hazardous polymerization does not occur. Stable under recommended storage conditions. Chemical stability

DO NOT MIX WITH BLEACH or use in conjunction with other household products. Conditions to avoid

Heat (T>50°C), product contamination. Extremes of temperature and direct sunlight.

Incompatible materials Oxidizers. Caustics.

May include and are not limited to: Oxides of carbon. **Hazardous decomposition products** 

# 11. Toxicological Information

Component analysis - LC50		
Ingredient(s)	LC50	
Alcohols, C12-16, ethoxylated	Not available	
Benzenesulfonic acid, C10-16-alkyl derivatives	Not available	
Hydrogen peroxide	Not available	
Sodium hydroxide	Not available	
Component analysis - Oral LD50		
Ingredient(s)	LD50	
Alcohols, C12-16, ethoxylated	1380 mg/kg rat	
Benzenesulfonic acid, C10-16-alkyl derivatives	530 mg/kg rat	
Hydrogen peroxide	75 mg/kg rat; 2000 mg/kg mouse	_
Sodium hydroxide	Not available	

Effects of acute exposure

Component englysis I CEO

Eye None expected during normal conditions of use.

May be severe eye irritant

Skin Skin irritant.

Not expected to be a skin sensitizer.

**Inhalation** None expected during normal conditions of use.

**Ingestion** May be harmful by ingestion.

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.

Name of Toxicologically Synergistic Not available

**Products** 

### 12. Ecological Information

#### **Ecotoxicity**

Contained surfactants are ultimate aerobically biodegradable according to method OECD 301. The liquid contains hydrogen peroxide which decomposes in oxygen and water with no adverse effect. For surfactants with EC 50 < 1mg/l no adverse long-term effects to the aquatic environment are foreseen, due to their biodegradability and non-bioaccumable properties. The product may exhibit acute effects in case of massive discharge in watercourses.

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

Hydrogen peroxide 7722-84-1 72 Hr EC50 Chlorella vulgaris: 2.5 mg/L

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

Benzenesulfonic acid, 68584-22-5 96 Hr LC50 Oncorhynchus mykiss: 3 mg/L [static]

C10-16-alkyl derivatives

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]

Sodium hydroxide 1310-73-2 96 Hr LC50 Oncorhynchus mykiss: 45.4 mg/L [static]

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

Benzenesulfonic acid, 68584-22-5 48 Hr EC50 Daphnia magna: 2.9 mg/L

C10-16-alkyl derivatives

Hydrogen peroxide 7722-84-1 24 Hr EC50 Daphnia magna: 7.7 mg/L; 48 Hr EC50 Daphnia magna: 18 - 32 mg/L

Static]

Persistence / degradability

Bioaccumulation / accumulation

Mobility in environmental media

Environmental effects

Aquatic toxicity

Partition coefficient

Chemical fate information

Not available

Not available

Not available

Not available

## 13. Disposal Considerations

**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

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 nameNot applicableStatusNot applicablePacking groupNot 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 pollutantNot applicableEMSNot applicableMFAGNot applicableMaximum QuantityNot 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

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous

chemical

Yes

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. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

Hydrogen peroxide 7722-84-1 1000 Lb EPCRA RQ (concentration >52%)

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs

Hydrogen peroxide 7722-84-1 1000 Lb TPQ (concentration >52%)

U.S. - CWA (Clean Water Act) - Hazardous Substances
Sodium hydroxide 1310-73-2 Present

**CERCLA (Superfund) reportable quantity** 

Sodium hydroxide: 1000.0000 Sulphuric acid: 1000.0000

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

Section 311 hazardous chemical No

Clean Water Act (CWA) Hazardous substance

This product is not subject to warning labeling under the California Proposition 65 regulation.

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

Hydrogen peroxide 7722-84-1 Present Sodium hydroxide 1310-73-2 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

Hydrogen peroxide 7722-84-1 Extraordinarily hazardous

Sodium hydroxide 1310-73-2 Present

U.S. - Minnesota - Hazardous Substance List

Hydrogen peroxide 7722-84-1 Present (including Hydrogen peroxide [90%])

Sodium hydroxide 1310-73-2 Present U.S. - New Jersey - Right to Know Hazardous Substance List Hydrogen peroxide 7722-84-1 sn 1015 Sodium hydroxide 1310-73-2 sn 1706

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

Hydrogen peroxide 7722-84-1 1 Lb RQ (air); 1 lb RQ (land/water)
Sodium hydroxide 1310-73-2 1000 Lb RQ (air); 100 lb RQ (land/water)

U.S. - Ohio - Extremely Hazardous Substances - Threshold Quantities

Hydrogen peroxide 7722-84-1 500 Lb TQ (concentration >52%)

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

Hydrogen peroxide 7722-84-1 Environmental hazard (concentration >52%); Present

Sodium hydroxide 1310-73-2 Environmental hazard

U.S. - Rhode Island - Hazardous Substance List

Hydrogen peroxide 7722-84-1 Toxic: Flammable

Sodium hydroxide 1310-73-2 Toxic (caustic); Flammable (caustic)

U.S. - Texas - Tier II Chemical Reporting - Extremely Hazardous Substances - Reportable Quantities

Hydrogen peroxide 7722-84-1 1000 Lb RQ

U.S. - Texas - Tier II Chemical Reporting - Extremely Hazardous Substances - Threshold Planning Quantities

Hydrogen peroxide 7722-84-1 1000 Lb TPQ (concentration >52%)

Inventory status

Country(s) or region Inventory name On inventory (yes/no)\*

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

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 RESOLVE® (SPRAY'N WASH®) In-Wash Stain Remover, 22 oz/40 oz/92 oz -

0269128v1.0

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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.