SAFETY DATA SHEET



Resolve® Spray 'n Wash® Gold Laundry Stain Remover

1. Product and company identification

Product name	Resolve® Spray 'n Wash® Gold Laundry Stain Remover
Distributed by	: Reckitt Benckiser LLC. Morris Corporate Center IV 399 Interpace Parkway (P.O. Box 225) Parsippany, New Jersey 07054-0225 +1 973 404 2600
Emergency telephone number (Medical)	: 1-800-338-6167
Emergency telephone number (Transport)	: 1-800-424-9300 (U.S. & Canada) CHEMTREC Outside U.S. and Canada (North America), call Chemtrec:703-527-3887
Website:	http://www.rbnainfo.com

This SDS is designed for workplace employees, emergency personnel and for other conditions and situations where there is greater potential for large-scale or prolonged exposure, in accordance with the requirements of USDOL Occupational Safety and Health Administration.

This SDS 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 regulations, and shown in Section 15 of this SDS.

SDS #	: D8156366
Formulation #:	: 8153106

2. Hazards identification		
Classification of the substance or mixture	: SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1	
GHS label elements		
Hazard pictograms		
Signal word	: Danger	
Hazard statements	: Causes serious eye damage.	
Precautionary statements		
General	 Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand. 	
Prevention	: Wear eye or face protection. Wash hands thoroughly after handling.	
Response	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.	
Storage	: Not applicable.	
Code # : D8156366	SDS # : D8156366 Date of issue : 12/03/2015. 1/11	

2. Hazards identification

Disposal	: Not applicable.
Supplemental label elements	: None known.
Hazards not otherwise classified	: None known.

3. Composition/information on ingredients

Substance/mixture : Mixture		
Ingredient name	%	CAS number
Alcohols, C12-16, ethoxylated 3EO hydrogen peroxide Alcohols, C12-16, ethoxylated 7EO Propylene glycol	5 - 10 2.5 - 5 2.5 - 5 1.5 - 2.5	68551-12-2 7722-84-1 68551-12-2 57-55-6

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First aid measures

Description of necessary first aid measures

Eye contact	: Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
Inhalation	: Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.
Skin contact	: Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
Ingestion	: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Move to fresh air. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.
Most important sympton	ns/effects, acute and delayed
Potential acute health e	effects
Eye contact	: Causes serious eye damage.

4. First aid measu	
Inhalation	 May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: May cause burns to mouth, throat and stomach.
Over-exposure signs/symp	<u>otoms</u>
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains
Indication of immediate me	dical attention and special treatment needed, if necessary
Notes to physician	: Treat symptomatically.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide
Special protective actions for fire-fighters	 Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for co	ainment and cleaning up
Small spill	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	Stop leak if without risk. Move containers from spill area. Approach release from

In the stop leak in without risk. Move containers from spin area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

7. Handling and storage

Precautions for safe handling	1	
Protective measures	:	Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Conditions for safe storage, including any incompatibilities	:	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8. Exposure controls/personal protection

Control

Occupational exposure limits

8. Exposure controls/personal protection

Ingredient name	Exposure limits
hydrogen peroxide	ACGIH TLV (United States, 6/2013). TWA: 1 ppm 8 hours. TWA: 1.4 mg/m ³ 8 hours. OSHA PEL 1989 (United States, 3/1989). TWA: 1 ppm 8 hours. TWA: 1.4 mg/m ³ 8 hours. NIOSH REL (United States, 10/2013). TWA: 1 ppm 10 hours. TWA: 1.4 mg/m ³ 10 hours. OSHA PEL (United States, 2/2013). TWA: 1 ppm 8 hours. TWA: 1 ppm 8 hours. TWA: 1.4 mg/m ³ 8 hours.
Propylene glycol	AIHA WEEL (United States, 10/2011). TWA: 10 mg/m ³ 8 hours.
Appropriate engineering controls	: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measu	<u>ires</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/ or face shield. If inhalation hazards exist, a full-face respirator may be required instead
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	 Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	 Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

9. Physical and chemical properties

Appearance

Appearance		
Physical state	1	Liquid.
Color	4	Opaque White.
Odor		Characteristic.
Odor threshold		Not available.
рН	4	3.5 (neat solution)
Melting point		Not available.
Boiling point	-	Not available.
	-	Not available.
Flash point		
Evaporation rate	4	Not available.
Flammability (solid, gas)	1	Not available.
Lower and upper explosive (flammable) limits	:	Not available.
Vapor pressure	1	Not available.
Vapor density	:	Not available.
Relative density	1	1 to 1.02
Solubility	1	Easily soluble in the following materials: cold water and hot water.
Partition coefficient: n- octanol/water	:	Not available.
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
Viscosity	:	Dynamic (room temperature): <50 mPa⋅s (<50 cP)

10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	 Under normal conditions of storage and use, hazardous reactions will not occur. Polymerization. : There are no data available on the mixture itself.
Conditions to avoid	: Do not mix with: acids or oxidizing agents
Incompatible materials	: Do not mix with household chemicals
Hazardous decomposition products	: Hazardous decomposition products : carbon oxides , Various Organic chemicals.

11. Toxicological information

Information on toxicological effects

Product/ingredient name	Result	Species	Dose	Exposure
Alcohols, C12-16, ethoxylated	LD50 Oral	Rat	500 to 2000 mg/ kg	-
hydrogen peroxide	LD50 Oral	Rat - Male, Female	805 mg/kg (70% H2O2 w/w)	-

Irritation/Corrosion

11. Toxicological information

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Product/ingredient name	Result	Species	Score	Exposure	Observation
Alcohols, C12-16, ethoxylated	Eyes - Moderate irritant	Rabbit	-	24 hours 100 microliters	-
hydrogen peroxide	Eyes - Severe irritant	Rabbit	-	1 milligrams	-
Alcohols, C12-16, ethoxylated	Eyes - Moderate irritant	Rabbit	-	24 hours 100 microliters	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
hydrogen peroxide	-	3	-

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely : Not available. routes of exposure

Potential acute health effects

Eye contact	: Causes serious eye damage.
Inhalation	 May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: May cause burns to mouth, throat and stomach.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following:
	pain
	watering
	redness
Inhalation	: No specific data.

11. Toxicological information

Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains

Delayed and immediate effects and also chronic effects from short and long term exposure

: Not available.			
: Not available.			
: Not available.			
: Not available.			
Potential chronic health effects			
: No known significant effects or critical hazards.			
: No known significant effects or critical hazards.			
: No known significant effects or critical hazards.			
: No known significant effects or critical hazards.			
: No known significant effects or critical hazards.			
: No known significant effects or critical hazards.			

Numerical measures of toxicity

Acute toxicity estimates	
Route	ATE value
Oral	8843.4 mg/kg

12. Ecological information

Toxicity				
Product/ingredient name	Result	Species	Exposure	
hydrogen peroxide	Acute EC50 1.2 mg/l Marine water	Algae - Dunaliella tertiolecta - Exponential growth phase	72 hours	
	Acute EC50 5.38 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours	
	Acute EC50 2320 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours	
	Acute LC50 30 mg/l Fresh water Chronic NOEC 989.7 ppm Fresh water	Fish - Siluriformes - Fingerling Fish - Oncorhynchus tshawytscha - Egg	96 hours 43 days	

12. Ecological information

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
hydrogen peroxide	-1.36	-	low

Mobility in soil

Soil/water partition : Not available. coefficient (Koc)

Other adverse effects : No known significant effects or critical hazards.

13. Disposal considerations

Disposal methods	: Waste packaging should be recycled. Waste must be disposed of in accordance with
-	federal, state and local environmental control regulations.

14. Transport information

Not a DOT controlled material (United States). Not a TDG-controlled material. This preparation is not classified as dangerous according to international transport regulations (ADR/RID, IMDG or ICAO/IATA).

15. Regulatory information

U.S. Federal regulations	TSCA 8(a) CDR Exempt/Partial exemption: Not determine United States inventory (TSCA 8b): Not determined.	əd
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	Not listed	
Clean Air Act Section 602 Class I Substances	Not listed	
Clean Air Act Section 602 Class II Substances	Not listed	
DEA List I Chemicals (Precursor Chemicals)	Not listed	
DEA List II Chemicals (Essential Chemicals)	Not listed	
SARA 302/304		

Composition/information on ingredients

				SARA 30	2 TPQ	SARA 30	4 RQ
Name		%	EHS	(lbs)	(gallons)	(lbs)	(gallons)
hydrogen peroxide		2.5 - 5	Yes.	1000	106.1	1000	106.1
SARA 304 RQ SARA 311/312	: 28571.4 lbs /	12971.4 kg [3392.8 ga	al / 12843	L]		
Classification	: Immediate (ad	cute) health l	hazard				
ode # : D8156366	SDS #	: D81563	366	Date o	fissue : 12/	03/2015.	9/11

15. Regulatory information

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Alcohols, C12-16, ethoxylated	5 - 10	No.	No.	No.	Yes.	No.
hydrogen peroxide	2.5 - 5	No.	No.	No.	Yes.	No.
Alcohols, C12-16, ethoxylated	2.5 - 5	No.	No.	No.	Yes.	No.

State regulations	
Massachusetts	: The following components are listed: HYDROGEN PEROXIDE
New York	: The following components are listed: Hydrogen peroxide
New Jersey	 The following components are listed: PROPYLENE GLYCOL; 1,2-PROPANEDIOL; HYDROGEN PEROXIDE
Pennsylvania	 The following components are listed: 1,2-PROPANEDIOL; HYDROGEN PEROXIDE (CONC > 52 PERCENT)
Label elements	
Signal word	: CAUTION
Hazard statements	: CAUSES EYE AND SKIN IRRITATION. MAY BE HARMFUL IF SWALLOWED.
Precautionary measures	: Keep out of the reach of children. Do not get in eyes. Do not get on skin. Do not ingest. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.
Additional information	: Short term Skin Bleaching agent. IF ON SKIN: Rinse skin with water.

16. Other information



Personal protection

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

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National Fire Protection Association (U.S.A.)



16. Other information

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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Key to abbreviations	 ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International Air Transport Association IBC = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations
Date of issue	: 12/03/2015.
Date of previous issue	: 16/10/2014.
Version	: 1
Prepared by	: Reckitt Benckiser Italy Via Sant'Antonio, 5 30034 MIRA, VENICE ITALY ++39 041 5629211

Indicates information that has changed from previously issued version.

Notice to reader

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.



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