

## 1. Product and Company Identification

**Product Name** RESOLVE® (SPRAY'N WASH®) Oxi-Action Laundry Stain Remover (Trigger)  
**CAS #** Mixture

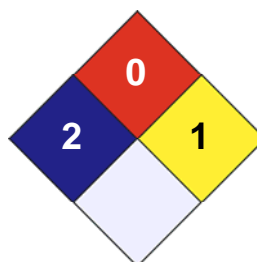
This MSDS is designed for workplace employees, emergency personnel and for other conditions and situations where there is a greater potential for large-scale or prolonged exposure, in accordance with requirements of the Canadian Workplace Hazardous Materials Information System (WHMIS).  
 This MSDS is 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 (Canada) Inc.  
 1680 Tech Avenue Unit #2  
 Mississauga, ON L4W 5S9  
 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	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

HEALTH	/ 2
FLAMMABILITY	0
PHYSICAL HAZARD	1
PERSONAL PROTECTION	B



## 2. Hazards Identification

**Emergency Overview** CAUTION  
 MAY IRRITATE EYES AND SKIN.  
 Do not get in eyes or on skin.

Keep out of reach of children.

### Potential short term health effects

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

**Eyes** 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.

**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, oedema, drying, defatting and cracking of the skin.  
 Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

## 3. Composition/Information on Ingredients

Components	CAS #	Percent
Alcohols, C12-16, ethoxylated	68551-12-2	5 - 10
Alkylarylsulfonic acid	68584-22-5	3 - 7
Hydrogen peroxide	7722-84-1	1 - 5

Components	CAS #	Percent
Sodium cumenesulfonate	28348-53-0	1 - 5

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#### 4. First Aid Measures

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##### First aid procedures

<b>Eye contact</b>	If in eyes, rinse eyes with plenty of water. Remove any contact lenses and continue to rinse with water. If irritation persists get medical attention.
<b>Skin contact</b>	If on skin, rinse well with water. If irritation develops, get medical attention.
<b>Inhalation</b>	Move person to fresh air. If the person feels unwell, call a physician or Poison Control Center.
<b>Ingestion</b>	If swallowed, call a Poison Control Centre or doctor immediately. DO NOT induce vomiting. Never give anything by mouth if victim is unconscious, or is convulsing. Rinse mouth with water.

##### Notes to physician

Symptoms may be delayed.

##### 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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<b>Flammable properties</b>	Not flammable by WHMIS 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.
<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>Environmental precautions</b>	Do not discharge into lakes, streams, ponds or public waters. Advise authorities if product has penetrated drains, sewers or water pipes.
<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 MAY IRRITATE EYES AND SKIN. Do not get in eyes or on skin. Ensure adequate ventilation. When using do not eat or drink. Wash hands before breaks and immediately after handling the product. Always test garment before using by applying to an inconspicuous area. Not recommended to apply directly on khaki, washable silk and fluorescent clothing.
<b>Storage</b>	Keep out of reach of children. Store away from heat sources. Store in a closed container away from incompatible materials. Store in a cool dry place inaccessible to children and pets. Protect from direct sunlight.

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## 8. Exposure Controls/Personal Protection

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### Occupational exposure limits

#### US. ACGIH Threshold Limit Values

Components	Type	Value
Hydrogen peroxide (CAS 7722-84-1)	TWA	1 ppm

**Exposure limit values** Chemicals listed in section 3 that are not listed here do not have established limit values for ACGIH.

**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.**

<b>Eye / face protection</b>	Not normally required under normal use conditions. 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.
<b>Hand protection</b>	No special requirements under normal use conditions. For sensitive skin or prolonged use, wear rubber gloves. Emergency responders should wear impermeable gloves.
<b>Skin and body protection</b>	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.
<b>Respiratory protection</b>	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.
<b>General hygiene considerations</b>	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.

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## 9. Physical and Chemical Properties

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<b>Appearance</b>	Clear
<b>Colour</b>	Colourless
<b>Form</b>	Liquid
<b>Odour</b>	Perfume
<b>Odour threshold</b>	Not available.
<b>Physical state</b>	Liquid.
<b>pH</b>	3.5 ± 0.5 (as is)
<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.
<b>Flammability Limits in Air, Upper, % by Volume</b>	Not available.
<b>Flammability Limits in Air, Lower, % by Volume</b>	Not available.
<b>Vapour pressure</b>	Not available.
<b>Vapour density</b>	Not available.
<b>Specific gravity</b>	1.005 - 1.015
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Solubility (Water)</b>	High
<b>Relative density</b>	Not available.
<b>Viscosity</b>	< 100 cPs, 20°C
<b>VOC</b>	Not available
<b>Percent volatile</b>	Not available

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### 10. Stability and Reactivity

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<b>Reactivity</b>	DO NOT MIX WITH BLEACH or use in conjunction with other household products. May react with strong bases or oxidizing agents.
<b>Possibility of hazardous reactions</b>	Hazardous polymerisation does not occur.
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Conditions to avoid</b>	Heat (T>50°C), product contamination.
<b>Incompatible materials</b>	Oxidizers. Caustics.
<b>Hazardous decomposition products</b>	May include and are not limited to: Oxides of carbon.

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### 11. Toxicological Information

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#### Toxicological data

Components	Species	Test results
Alcohols, C12-16, ethoxylated (CAS 68551-12-2)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	>= 2000 mg/kg
<i>Oral</i>		
LD50	Rat	1380 mg/kg
<b>LC50</b>		
Not available.		
Alkylarylsulfonic acid (CAS 68584-22-5)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rat	530 mg/kg
<i>Oral</i>		
LD50	Mouse	1407 mg/kg
<b>LC50</b>		
Not available.		
Hydrogen peroxide (CAS 7722-84-1)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	2000 mg/kg
	Rat	2000 mg/kg

Components	Species	Test results
<i>Oral</i> LD50	Mouse	2000 mg/kg
	Rat	75 mg/kg
<b>LC50</b> Not available.		
Sodium cumenesulfonate (CAS 28348-53-0)		
<b>Acute</b> <i>Oral</i> LD50	Rat	7000 mg/kg
<b>LC50</b> Not available.		
<b>LD50</b> Not available.		

#### Effects of acute exposure

<b>Eye contact</b>	May be severe eye irritant
<b>Skin contact</b>	Skin irritant. Not expected to be a skin sensitizer.
<b>Inhalation</b>	None expected during normal conditions of use.
<b>Ingestion</b>	May be harmful by ingestion.
<b>Sensitisation</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>Name of Toxicologically Synergistic Products</b>	Not available.

## 12. Ecological Information

**Ecotoxicity** Contained surfactants are ultimate aerobically biodegradable according to method OECD 301.

#### Ecotoxicological data

Components	Species	Test results
Alkylarylsulfonic acid (CAS 68584-22-5)		
<b>Aquatic</b> Crustacea	EC50 Daphnia	2.9 mg/L, 48 Hours
Hydrogen peroxide (CAS 7722-84-1)		
Algae	IC50 Algae	2.5 mg/L, 72 Hours
<b>Aquatic</b> Crustacea	EC50 Daphnia	7.7 mg/L, 48 Hours
Sodium cumenesulfonate (CAS 28348-53-0)		
Algae	IC50 Algae	1000 mg/L, 72 Hours

**Persistence and degradability** Not available.

<b>Bioaccumulation/accumulation</b>	Not available
<b>Mobility in environmental media</b>	Not available.
<b>Environmental effects</b>	Not available.
<b>Aquatic toxicity</b>	Not available.
<b>Partition coefficient</b>	Not available.
<b>Chemical fate information</b>	Not available.

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### 13. Disposal Considerations

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<b>Disposal instructions</b>	Dispose in accordance with all applicable regulations. Do not reuse container. Rinse container and offer for recycling where facilities exist.
<b>Waste from residues / unused products</b>	Not available
<b>Contaminated packaging</b>	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

<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

<b>Proper shipping name</b>	Not applicable
<b>Status</b>	Not applicable
<b>Packing group</b>	Not applicable

**IMDG (Marine Transport): Classification:** Not regulated

<b>Proper shipping name</b>	Not applicable
<b>Class</b>	Not applicable
<b>Subsidiary Risk</b>	Not applicable
<b>Packing group</b>	Not applicable
<b>IMDG Page</b>	Not applicable
<b>Marine pollutant</b>	Not applicable
<b>EMS</b>	Not applicable
<b>MFAG</b>	Not applicable
<b>Maximum Quantity</b>	Not applicable

**IATA/ICAO (Air): Classification:** Not regulated

<b>Proper shipping name</b>	Not applicable
<b>Class</b>	Not applicable
<b>Subsidiary Risk:</b>	Not applicable
<b>Packing group</b>	Not applicable
<b>Maximum Quantity</b>	Not applicable

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## 15. Regulatory Information

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**Canadian federal regulations** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Product Registration: Product is compliant with CCCR regulatory guidelines; a specific registration is not required for this product.

### Canada WHMIS Ingredient Disclosure: Threshold limits

Hydrogen peroxide (CAS 7722-84-1) 1 %

**WHMIS Classification** Exempt - Consumer product

### Inventory Status

Country(s) or region	Inventory Name	On Inventory (Yes/No)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No

\*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** RESOLVE® (SPRAY'N WASH®) Oxi-Action Laundry Stain Remover (Trigger), 650 mL - 0129047v3.0

**Issue date** 30-August-2013

**Effective date** 31-August-2013

**Expiry Date** 31-August-2016

**Prepared by** Reckitt Benckiser Regulatory Department Phone: 800-333-3899

**Other Information** For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.

This MSDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.