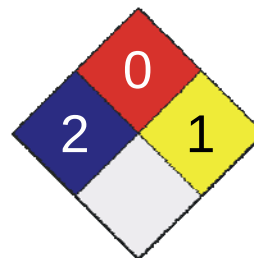


1. Product and Company Identification

Product Name RESOLVE® Oxi-Action Crystal White (Liquid)
CAS # Mixture
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 HMIS/NFPA	
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, on skin or clothing.
 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 (raw materials information).
Skin	Skin irritant. (raw materials information). Not expected to be a skin sensitizer.
Inhalation	None expected during normal conditions of use.
Ingestion	May be harmful by ingestion. (raw materials information).
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.
Potential environmental effects	See section 12.

3. Composition/Information on Ingredients

Ingredient(s)	CAS #	Percent
Disodium 4,4'-bis(2-sulfostyryl) biphenyl	27344-41-8	0.1 - 1
Sodium hydroxide	1310-73-2	1 - 5
Alkylarylsulfonic acid	68584-22-5	10 - 30
Alcohols, C12-16, ethoxylated	68551-12-2	10 - 30
Hydrogen peroxide	7722-84-1	3 - 7

4. First Aid Measures

First aid procedures

Eye contact	If in eyes, remove any contact lenses and continue rinsing eyes for at least 15 minutes. If irritation persists, get medical attention.
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Skin contact	If on skin, rinse well with water. If irritation persists, get medical attention.
Inhalation	Move person to fresh air. If the person feels unwell, call a physician or Poison Control Center.
Ingestion	If swallowed, call a Poison Control Centre or doctor immediately. DO NOT induce vomiting.
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.

5. Fire-fighting Measures

Flammable properties	Not flammable by WHMIS criteria. (based on raw material data)
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.
Environmental precautions	Do not discharge into lakes, streams, ponds or public waters.
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 in original containers for re-use.

7. Handling and Storage

Handling	Ensure adequate ventilation. Do not get in eyes, on skin or on clothing. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.
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

Exposure limit values

Ingredient(s)	Exposure limit values
Alcohols, C12-16, ethoxylated	ACGIH-TLV Not established
Alkylarylsulfonic acid	ACGIH-TLV Not established
Disodium 4,4'-bis(2-sulfostyryl) biphenyl	ACGIH-TLV Not established
Hydrogen peroxide	ACGIH-TLV TWA: 1 ppm
Sodium hydroxide	ACGIH-TLV Ceiling: 2 mg/m3

Engineering controls

General ventilation normally adequate.

Personal protective equipment

Eye/Face protection

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.

Hand protection

No special requirements under normal use conditions.
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

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	Clear
Colour	Blue
Form	Liquid
Odour	Perfume
Odour threshold	Not available
Physical state	Liquid
pH	3.5 ± 0.3 (as is)
Freezing point	Not available
Boiling point	Not available
Pour point	Not available
Evaporation Rate	Not available
Flash point	Not available
Auto-ignition temperature	Not available
Flammability limits in air, lower, % by volume	Not available
Flammability Limits in Air, Upper, % by Volume	Not available
Vapour pressure	Not available
Vapour density	Not available

Specific gravity	1.04 ± 0.005 g/mL
Octanol/water coefficient	Not available
Solubility (H2O)	High
Viscosity	800 ± 100 cps @ 25°C (Brookfield LV type, Spindle # 31 @ 12rpm)

10. Stability and Reactivity

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

11. Toxicological Information

Component analysis - LC50

Ingredient(s)	LC50
Alcohols, C12-16, ethoxylated	Not available
Alkylarylsulfonic acid	Not available
Disodium 4,4'-bis(2-sulfostyryl) biphenyl	3.6 mg/l/4h rat
Hydrogen peroxide	Not available
Sodium hydroxide	Not available

Component analysis - Oral LD50

Ingredient(s)	LD50
Alcohols, C12-16, ethoxylated	1380 mg/kg rat
Alkylarylsulfonic acid	530 mg/kg rat
Disodium 4,4'-bis(2-sulfostyryl) biphenyl	5580 mg/kg rat
Hydrogen peroxide	75 mg/kg rat; 2000 mg/kg mouse
Sodium hydroxide	Not available

Effects of acute exposure

Eye	May be severe eye irritant (raw materials information).
Skin	Skin irritant. (raw materials information). Not expected to be a skin sensitizer.
Inhalation	None expected during normal conditions of use.
Ingestion	May be harmful by ingestion. (raw materials information).
Sensitisation	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.

ACGIH - Threshold Limit Values - Carcinogens

Hydrogen peroxide	7722-84-1	A3 - Confirmed animal carcinogen with unknown relevance to humans.
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IARC - Group 3 (Not Classifiable)

Hydrogen peroxide	7722-84-1	Monograph 71 [1999]; Supplement 7 [1987]; Monograph 36 [1985]
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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 Products	Not available

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.
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Ecotoxicity - Freshwater Algae - Acute Toxicity Data

Disodium 4,4'-bis(2-sulfostyryl) biphenyl	27344-41-8	72 Hr EC50 Desmodesmus subspicatus: 10 mg/L; 96 Hr EC50 Desmodesmus subspicatus: 10.0 - 11.0 mg/L
Hydrogen peroxide	7722-84-1	72 Hr EC50 Chlorella vulgaris: 2.5 mg/L

Ecotoxicity - Freshwater Fish - Acute Toxicity Data

Alkylarylsulfonic acid	68584-22-5	96 Hr LC50 Oncorhynchus mykiss: 3 mg/L [static]
Disodium 4,4'-bis(2-sulfostyryl) biphenyl	27344-41-8	96 Hr LC50 Brachydanio rerio: 76 mg/L [static]
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

Alkylarylsulfonic acid	68584-22-5	48 Hr EC50 Daphnia magna: 2.9 mg/L
Disodium 4,4'-bis(2-sulfostyryl) biphenyl	27344-41-8	48 Hr EC50 Daphnia magna: 1000 mg/L
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 and degradability	Not available
Bioaccumulation/accumulation	Not available
Mobility in environmental media	Not available
Environmental effects	Not available
Aquatic toxicity	Not available
Partition coefficient	Not available
Chemical fate information	Not available
Other adverse effects	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

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

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 List

Disodium 4,4'-bis(2-sulfostyryl) biphenyl	27344-41-8	0.1 %
Hydrogen peroxide	7722-84-1	1 %
Sodium hydroxide	1310-73-2	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)

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® Oxi Action Crystal White - Liquid, 650 mL - 0358255v1.0

Issue date

18-Jul-2012

Effective Date

15-Jul-2012

Expiry Date

15-Jul-2015

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.