

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

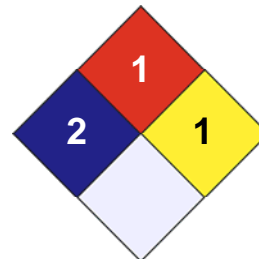
Product name RESOLVE® Oxi-Action™ In-Wash Laundry Stain Remover
CAS # Mixture
 This MSDS is designed for workplace employees, emergency personnel and for other conditions and situations where there is a greater potential for large-scale or prolonged exposure, in accordance with requirements of the Canadian 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	1
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 on clothing.
 KEEP OUT OF REACH OF CHILDREN.

Potential short term health effects

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

Eyes Eye irritant. (based on raw material data)

Skin Skin irritant. (based on raw material data)
 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.

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 Components of this product have been identified as having potential environmental concerns.

3. Composition/Information on Ingredients

Components	CAS #	Percent
Sodium carbonate	497-19-8	30 - 60
Sodium percarbonate	15630-89-4	30 - 60

Components	CAS #	Percent
Alcohols, C12-15, ethoxylated	68131-39-5	1 - 5
Silicic acid, sodium salt	1344-09-8	1 - 5

4. First Aid Measures

First aid procedures

Eye contact	If in eyes, IMMEDIATELY rinse eyes with water. Remove any contact lenses and continue rinsing eyes for at least 15 minutes. If irritation persists, get medical attention.
Skin contact	If on skin, rinse well with water. If irritation develops, get medical attention.
Inhalation	Very unlikely under normal conditions of use. In case of accident, move the person to fresh air. If the individual feels unwell seek medical advice immediately. Use only as directed.
Ingestion	If swallowed, rinse mouth and drink a glass of water. Call a Poison Control Centre or doctor IMMEDIATELY. Do not induce vomiting.

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 WHMIS 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.
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	Prevent entry into waterways, sewers, basements or confined areas.
Methods for cleaning up	Before attempting clean up, refer to hazard data given above. Use broom or dry vacuum to collect material for proper disposal without raising dust. Rinse area with water. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice.

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

Exposure limits	There are no established ACGIH exposure limits for the hazardous chemicals listed in section 3 of the MSDS.
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	Safety glasses recommended. Emergency responders should wear full eye and face protection.
Hand protection	Protective gloves are recommended for prolonged or repeated exposure. 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	Avoid inhalation of dust. 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 practices. 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	Powder
Colour	White with Green speckles
Form	Solid.
Odour	Characteristic
Odour threshold	Not available.
Physical state	Solid.
pH	10.8 ± 0.3
Freezing point	Not available.
Boiling point	Not available.
Pour point	Not available.
Evaporation rate	Not available
Flash point	> 93.3 °C (> 199.9 °F)
Auto-ignition temperature	Not available.
Flammability Limits in Air, Upper, % by Volume	Not available.
Flammability Limits in Air, Lower, % by Volume	Not available.
Heat of combustion	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Specific gravity	1135 ± 30 g/l

Partition coefficient (n-octanol/water)	Not available.
Solubility (Water)	Complete
Relative density	Not available.
Viscosity	Not available.
VOC	Not available
Percent volatile	Not available

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.
Incompatible materials	Oxidizers. Caustics. humid air
Hazardous decomposition products	May include and are not limited to: Oxides of carbon.

11. Toxicological Information

Toxicological data

Components	Species	Test results
Alcohols, C12-15, ethoxylated (CAS 68131-39-5)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	2000 mg/kg
	Rat	2000 mg/kg
<i>Oral</i>		
LD50	Rat	2000 mg/kg
LC50		
Not available.		
Silicic acid, sodium salt (CAS 1344-09-8)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	4640 mg/kg
<i>Oral</i>		
LD50	Mouse	1100 mg/kg
	Rat	1153 mg/kg
LC50		
Not available.		
Sodium carbonate (CAS 497-19-8)		
Acute		
<i>Inhalation</i>		
LC50	Guinea pig	400 mg/m3
		0.8 mg/l, 2 Hours
	Mouse	1.2 mg/l, 2 Hours
	Rat	2.3 mg/l, 2 Hours
<i>Oral</i>		
LD50	Rat	4090 mg/kg

Components	Species	Test results
Sodium percarbonate (CAS 15630-89-4)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	2000 mg/kg
<i>Oral</i>		
LD50	Mouse	2200 mg/kg
	Rat	1034 mg/kg
LC50		
Not available.		

Effects of acute exposure

Eye contact	Eye irritant. (based on raw material data)
Skin contact	Skin irritant. (based on raw material data) 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.
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.
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 Components of this product have been identified as having potential environmental concerns.

Ecotoxicological data

Components	Species	Test results
Alcohols, C12-15, ethoxylated (CAS 68131-39-5)		
Aquatic		
Crustacea	EC50	Water flea (Ceriodaphnia dubia) 0.37 - 0.43 mg/l, 48 hours
Fish	LC50	Channel catfish (Ictalurus punctatus) 1.04 - 1.39 mg/l, 96 hours
Silicic acid, sodium salt (CAS 1344-09-8)		
Aquatic		
Crustacea	EC50	Water flea (Ceriodaphnia dubia) 0.28 - 0.57 mg/l, 48 hours
Fish	LC50	Western mosquitofish (Gambusia affinis) 1800 mg/l, 96 hours
Sodium carbonate (CAS 497-19-8)		
Crustacea	EC50	Daphnia 265 mg/L, 48 Hours
Aquatic		
Crustacea	EC50	Water flea (Ceriodaphnia dubia) 156.6 - 298.9 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus) 300 mg/l, 96 hours
Sodium percarbonate (CAS 15630-89-4)		
Crustacea	EC50	Daphnia 4.9 mg/L, 48 Hours
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.

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

U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.

Transportation of Dangerous Goods (TDG - Canada)

Not regulated as dangerous goods.

IATA/CAO (Air)

Not regulated as dangerous goods.

IMDG (Marine Transport)

Not regulated as dangerous goods.

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: Threshold limits

Sodium carbonate (CAS 497-19-8) 1 %

WHMIS Classification Exempt - Consumer product

Inventory status

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

*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™ In-Wash Laundry Stain Remover - 0284950v1.0

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Expiry Date 15-March-2017

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

Other information For an updated MSDS, please contact the supplier/manufacture listed on the first page of the document.

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