

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product name RESOLVE® (SPRAY'N WASH®) Pre-Treat 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 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

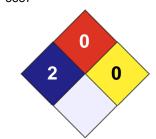
P.O. Box 225

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

Severe 4
Serious 3
Moderate 2
Slight 1
Minimal 0





2. Hazards Identification

Emergency overview CAUTION

EYE AND SKIN IRRITANT.

May be harmful if directly inhaled.

DO NOT get in eyes, on skin or inhale spray. DO NOT treat garments while wearing.

KEEP OUT OF REACH OF CHILDREN.

Potential short term health effects

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

EyesEye irritant.SkinSkin irritant.

Inhalation Inhalation toxicity not determined.

Ingestion Not orally toxic.

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, edema, drying, defatting and cracking of the skin. Symptoms of

overexposure may be headache, dizziness, tiredness, nausea and vomiting.

OSHA regulatory status This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

0	3. Composition/Information		Danasid
Components		CAS#	Percent
Alcohols, C12-16, ethoxylated		68551-12-2	2.5 - 10
1,2-Propanediol		57-55-6	1 - 2.5
Sodium citrate		6132-04-3	1 - 2.5
Subtilisin carlsburg		9014-01-1	0 - 0.1
	4. First Aid Mea	sures	
First aid procedures			
Eye contact	If in eyes, IMMEDIATELY rinse eyes with water. Remove any contact lenses and continue rinsin eyes for at least 15 minutes. If irritation develops, get medical attention.		
Skin contact	If on skin, wash with soap and water. If Irritation develops, get medical attention.		
Inhalation	If inhaled and irritation or an allergic reaction occurs, get medical attention.		
Ingestion	If swallowed, rinse mouth and drink a mouth to an unconscious person. Call		
Notes to physician	Symptoms may be delayed.		
General advice	If you feel unwell, seek medical advice personnel are aware of the material(s) Show this safety data sheet to the doc out of reach of children.	involved, and take precautions to	protect themselves.
	5. Fire Fighting Me	easures	
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 and precautions for firefighters	Firefighters should wear full protective clothing including self contained breathing apparatus.		
Hazardous combustion products	May include and are not limited to: Ox	ides of carbon. Oxides of nitrogen.	
Explosion data			
Sensitivity to mechanical impact	Not available.		
Sensitivity to static discharge	Not available.		
	6. Accidental Release	Measures	
Personal precautions	Avoid contact with eves		

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

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 CAUTION

EYE AND SKIN IRRITANT.

Ensure adequate ventilation. DO NOT get in eyes, on skin or inhale spray. May be harmful if

directly inhaled.

DO NOT treat garment while wearing.

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.

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

Occupational exposure limits

US. ACGIH Threshold Limit Values

ComponentsTypeValueSubtilisin carlsburg (CAS
9014-01-1)Ceiling0.00006 mg/m3

Exposure limits

Chemicals listed in section 3 that are not listed here do not have established limit values for

ACGIH or OSHA PEL.

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

If splashing is likely to occur or for occupational exposures, wear appropriate eye protection.

Emergency responders should wear full eye and face protection.

Hand protection

Avoid contact with the skin. Wear rubber gloves if repeated or prolonged contact with skin is

possible.

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

Appearance Clear Color Colorless **Form** Liquid Odor Perfume Not available. **Odor threshold** Physical state Liquid. 8.5 - 9.5Ha Not available. Freezing point

Boiling point Not available. Not available. Pour point **Evaporation rate** Not available Flash point Not available. Not available. **Auto-ignition temperature** Not available. Flammability limits in air, upper, % by volume Not available. Flammability limits in air,

lower, % by volume

Not available. Vapor pressure Not available. Vapor density 1.004 - 1.008 Specific gravity **Partition coefficient** Not available.

(n-octanol/water) Solubility (water)

Complete Relative density Not available. Not available. **Viscosity** Not available VOC Percent volatile Not available

10. Stability and Reactivity

Reactivity This product may react with strong oxidizing agents.

Possibility of hazardous

reactions

Hazardous polymerization 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.

Hazardous decomposition

products

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

11. Toxicological Information

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Toxicological data				
Components	Species	Test Results		
,2-Propanediol (CAS 57-55-6)				
Acute				
Dermal				
LD50	Rabbit	20800 mg/kg		
Oral				
LD50	Dog	19 g/kg		
	Guinea pig	18.4 g/kg		
	Mouse	23.9 g/kg		
	Rabbit	14800 mg/kg		
		18 g/kg		
	Rat	20000 mg/kg		
		30 g/kg		
LC50				
Not available.				
Alcohols, C12-16, ethoxylated (CA	S 68551-12-2)			
Acute				
Dermal				

LD50 Rabbit >= 2000 mg/kg

Components	Species	Test Results
Oral		
LD50	Rat	1380 mg/kg
LC50		
Not available.		
Sodium citrate (CAS 6132-0	4-3)	
Acute		
Oral		
LD50		> 8000 mg/kg
LC50		
Not available.		
Subtilisin carlsburg (CAS 90	14-01-1)	
LC50		
Not available.		
LD50		
Not available.		
Effects of acute exposure		
Eye contact	Eye irritant.	
Skin contact	Skin irritant.	
Inhalation	Inhalation toxicity not determined.	
Ingestion	Not orally toxic.	
Sensitization	The finished product is not expected	ed 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	See below			
Ecotoxicological data Components 1,2-Propanediol (CAS 57-55-6)		Species	Test Results	
Aquatic Crustacea	EC50	Daphnia	10000 mg/L, 48 Hours	
		Water flea (Daphnia magna)	> 10000 mg/l, 48 hours	
Fish	LC50	Fathead minnow (Pimephales promelas)	710 mg/l, 96 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 1,2-Propanediol		-0.92		
Chemical fate information	Not available.			

13. Disposal Considerations

Disposal instructions Dispose in accordance with all applicable regulations.

Do not reuse container. Rinse container and offer for recycling where facilities exist.

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 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 pollutant

Not applicable

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

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200

Yes

hazardous chemical

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.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

US CAA Section 111 Volatile Organic Compounds: Listed substance

1,2-Propanediol (CAS 57-55-6) Listed.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

CERCLA (Superfund) reportable quantity

None

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

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

US - California Hazardous Substances (Director's): Listed substance

Subtilisin carlsburg (CAS 9014-01-1) Listed.

US - Minnesota Haz Subs: Listed substance

1,2-Propanediol (CAS 57-55-6) Listed.

US - New Jersey RTK - Substances: Listed substance

1,2-Propanediol (CAS 57-55-6) Listed.

US - Texas Effects Screening Levels: Listed substance

1,2-Propanediol (CAS 57-55-6) Listed. Alcohols, C12-16, ethoxylated (CAS 68551-12-2) Listed. Sodium citrate (CAS 6132-04-3) Listed.

US. Massachusetts RTK - Substance List

Not regulated.

US. Pennsylvania RTK - Hazardous Substances

1,2-Propanediol (CAS 57-55-6) Listed.

US. Rhode Island RTK

Not regulated.

United States & Puerto Rico

Country(s) or region Inventory name

On inventory (yes/no)*
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.

Toxic Substances Control Act (TSCA) Inventory

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

that these are the only hazards that exist.

Further information RESOLVE® (SPRAY'N WASH®) Pre-Treat Laundry Stain Remover (Trigger), 22 oz/32 oz/60 oz -

0137240v2.0

Issue date29-August-2013Effective date31-August-2013

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.