

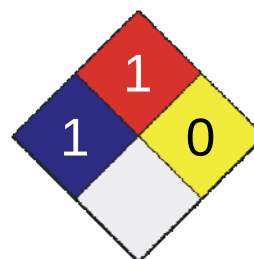
1. Product and Company Identification

Product Name	RESOLVE® (formerly SPRAY'N WASH®) Laundry Stain Remover - Pre-Treat - Aerosol
UPC CODES	Refer to Section 16
CAS #	Mixture
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: 1-800-228-4722 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	/ 1
Flammability	2
Physical Hazard	0
Personal Protection	B



2. Hazards Identification

Emergency overview	DANGER HARMFUL OR FATAL IF SWALLOWED. EYE IRRITANT CAUSES EYE IRRITATION. Avoid contact with eyes. Avoid prolonged inhalation of vapor. CONTENTS UNDER PRESSURE. DO NOT treat garment while wearing. Do not puncture or incinerate container. DO NOT expose to heat or store at temperatures above 120°F (49°C) as the container may burst. DO NOT use near fire or flame.
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KEEP OUT OF REACH OF CHILDREN.

Potential short term health effects

Routes of exposure

Eye, Skin contact, Inhalation, Ingestion.

Eyes

Eye irritant.

Skin

Not expected to be a primary skin irritant.
May be irritating to sensitive skin or in case of prolonged exposure.
Not expected to be a skin sensitizer.

ACGIH - Threshold Limit Values - Skin Notations

(2-Methoxymethylethoxy) 34590-94-8 Skin - potential significant contribution to overall exposure by the cutaneous route
propanol

NIOSH - Pocket Guide - Skin Notations

(2-Methoxymethylethoxy) 34590-94-8 Potential for dermal absorption
propanol

Inhalation

Not toxic by inhalation.

NOTE TO PARENTS: Intentional misuse by deliberately concentrating and inhaling aerosol products may be harmful or fatal. Help stop inhalation abuse; for information visit www.inhalant.org.

Ingestion	Ingestion is unlikely through the normal anticipated use of this product. Liquid phase of this product may present an aspiration hazard if ingested. Contains petroleum distillates. If swallowed, do NOT induce vomiting. Get IMMEDIATE medical attention.
Target organs	Respiratory system.
Chronic effects	The finished product is not expected to have chronic health effects.
Signs and symptoms	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

3. Composition / Information on Ingredients

Ingredient(s)	CAS #	Percent
(2-Methoxymethylethoxy) propanol	34590-94-8	2.5 - 10
1,2-Propanediol	57-55-6	2.5 - 10
Propane	74-98-6	2.5 - 10
Alcohols, C14-15, ethoxylated	68951-67-7	10 - 20
Alcohols, C9-11, ethoxylated	68439-46-3	10 - 20
Distillates (petroleum), light hydrotreated	64742-47-8	10 - 20
Ethanol	64-17-5	1 - 2.5

4. First Aid Measures

First aid procedures	
Eye contact	In case of eye contact, IMMEDIATELY rinse eyes with plenty of water. Remove any contact lenses and continue rinsing eyes for at least 15 minutes. If irritation persists, get medical attention.
Skin contact	Wash thoroughly with water. If irritation persists, get medical attention.
Inhalation	Remove to fresh air.
Ingestion	If swallowed, do NOT induce vomiting. Get IMMEDIATE medical attention.
Notes to physician	Treat patient symptomatically.
General advice	Do not puncture or incinerate container. Keep away from sources of ignition. No smoking. 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.
	NOTE TO PARENTS: Intentional misuse by deliberately concentrating and inhaling aerosol products may be harmful or fatal. Help stop inhalation abuse; for information visit www.inhalant.org .

5. Fire Fighting Measures

Flammable properties	Aerosol flame extension less than 18 inches (45 cm). Containers may explode when heated. Flash point of the ungasped concentrate is 126°F (52.2°C)(PMCC).
Extinguishing media	
Suitable extinguishing media	Water spray. Foam. Dry chemical. Carbon dioxide.
Unsuitable extinguishing media	Not available
Protection of firefighters	
Specific hazards arising from the chemical	Contents under pressure. Pressurized container may explode when exposed to heat or flame. Cool containers with flooding quantities of water until well after fire is out.
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. Oxides of nitrogen.
Explosion data	
Sensitivity to mechanical impact	Not available
Sensitivity to static discharge	Not available

6. Accidental Release Measures

Personal precautions	Ensure adequate ventilation. 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.
Methods for containment	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). 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. Remove sources of ignition. Although the chance of a significant spill or leak is unlikely in aerosol containers, in the event of such an occurrence, absorb spilled material with a non-flammable absorbent such as sand or vermiculite.

7. Handling and Storage

Handling	DANGER HARMFUL OR FATAL IF SWALLOWED. Contents under pressure. Do not puncture or incinerate container. Avoid prolonged inhalation of vapor. Use this product with adequate ventilation. When using do not eat or drink. Wash hands before breaks and immediately after handling the product. DO NOT use near fire or flame. DO NOT treat garment while wearing. DO NOT expose to heat or store at temperatures above 120°F (49°C) as the container may burst.
Storage	Keep out of reach of children. Do not store at temperatures above 49 °C (120.2°F). Store containers upright and closed. Keep away from heat, open flames or other sources of ignition. NOTE TO PARENTS: Intentional misuse by deliberately concentrating and inhaling aerosol products may be harmful or fatal. Help stop inhalation abuse; for information visit www.inhalant.org.

8. Exposure Controls / Personal Protection

Exposure limits

Ingredient(s)	Exposure Limits
(2-Methoxymethylethoxy) propanol	ACGIH-TLV TWA: 100 ppm STEL: 150 ppm Skin: 100 ppm OSHA-PEL TWA: 100 ppm
1,2-Propanediol	ACGIH-TLV Not established OSHA-PEL Not established
Alcohols, C14-15, ethoxylated	ACGIH-TLV Not established OSHA-PEL Not established
Alcohols, C9-11, ethoxylated	ACGIH-TLV Not established OSHA-PEL Not established
Distillates (petroleum), light hydrotreated	ACGIH-TLV Not established OSHA-PEL Not established
Ethanol	ACGIH-TLV TWA: 1000 ppm STEL: 1000 ppm OSHA-PEL TWA: 1000 ppm
Propane	ACGIH-TLV TWA: 1000 ppm OSHA-PEL TWA: 1000 ppm

Engineering controls

General ventilation normally adequate.

Personal protective equipment

Eye / face protection

Avoid contact with eyes.
 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.
 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	Spray
Color	White.
Form	Foam Aerosol.
Odor	Citrus
Odor threshold	Not available
Physical state	Gas
pH	9.8 (Basic)
Freezing point	Not available
Boiling point	Not available
Pour point	Not available
Evaporation rate	Not available
Flash point	Not applicable. Aerosol flame extension less than 18 inches (45 cm).
Auto-ignition temperature	Not available
Flammability limits in air, lower, % by volume	Not available
Flammability limits in air, upper, % by volume	Not available
Vapor pressure	Not determined
Vapor density	Not available
Specific gravity	0.943
Octanol/water coefficient	Not available
Solubility (H2O)	Complete

10. Stability and Reactivity

Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	DO NOT MIX WITH BLEACH or use in conjunction with other household products. Heat, open flames, static discharge, sparks and other ignition sources. Protect from sunlight and do not expose to temperatures exceeding 50°C (120°F). Extremes of temperatures can occur in cars and near ovens and fireplaces. Do not place in contact with hot surfaces or near naked flames. Do not spray on a naked flame, onto or near a fire, or any incandescent material such as an electric fire.
Incompatible materials	Acids. Oxidizers.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon. Oxides of nitrogen.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

11. Toxicological Information

Component analysis - LC50

Ingredient(s)	LC50
(2-Methoxymethylethoxy) propanol	Not available
1,2-Propanediol	Not available
Alcohols, C14-15, ethoxylated	Not available
Alcohols, C9-11, ethoxylated	5 mg/l/4h rat
Distillates (petroleum), light hydrotreated	5.2 mg/l/4h rat
Ethanol	31623 ppm rat
Propane	Not available

Component analysis - Oral LD50

Ingredient(s)	LD50
(2-Methoxymethylethoxy) propanol	5400 mg/kg rat
1,2-Propanediol	14800 mg/kg rabbit; 20000 mg/kg rat
Alcohols, C14-15, ethoxylated	1000 mg/kg rat
Alcohols, C9-11, ethoxylated	1200 mg/kg rat
Distillates (petroleum), light hydrotreated	5000 mg/kg rat
Ethanol	3450 mg/kg mouse; 7060 mg/kg rat
Propane	Not available

Effects of acute exposure**Eye**

Eye irritant.

Skin

Not expected to be a primary skin irritant.

May be irritating to sensitive skin or in case of prolonged exposure.

Not expected to be a skin sensitizer.

ACGIH - Threshold Limit Values - Skin Notations(2-Methoxymethylethoxy)
propanol

34590-94-8

Skin - potential significant contribution to overall exposure by the cutaneous route

NIOSH - Pocket Guide - Skin Notations(2-Methoxymethylethoxy)
propanol

34590-94-8

Potential for dermal absorption

Inhalation

Not toxic by inhalation.

NOTE TO PARENTS: Intentional misuse by deliberately concentrating and inhaling aerosol products may be harmful or fatal. Help stop inhalation abuse; for information visit www.inhalant.org.

Ingestion

Ingestion is unlikely through the normal anticipated use of this product.
Liquid phase of this product may present an aspiration hazard if ingested.
Contains petroleum distillates. If swallowed, do NOT induce vomiting.
Get IMMEDIATE medical attention.

Sensitization

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

Ethanol

64-17-5

A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans

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.

Synergistic Materials

Not available

12. Ecological Information

Ecotoxicity See below

Ecotoxicity - Freshwater Algae - Acute Toxicity Data

1,2-Propanediol 57-55-6 96 Hr EC50 Pseudokirchneriella subcapitata: 19000 mg/L

Ecotoxicity - Freshwater Fish - Acute Toxicity Data

(2-Methoxymethylethoxy) 34590-94-8 96 Hr LC50 Pimephales promelas: >10000 mg/L [static]

propanol

1,2-Propanediol 57-55-6 96 Hr LC50 Oncorhynchus mykiss: 51600 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 41-47 ml/L [static]; 96 Hr LC50 Pimephales promelas: 51400 mg/L [static]; 96 Hr LC50 Pimephales promelas: 710 mg/L

Distillates (petroleum), light hydrotreated 64742-47-8 96 Hr LC50 Pimephales promelas: 45 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 2.2 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 2.4 mg/L [static]

Ethanol 64-17-5 96 Hr LC50 Oncorhynchus mykiss: 12.0-16.0 ml/L [static]; 96 Hr LC50 Pimephales promelas: >100 mg/L [static]; 96 Hr LC50 Pimephales promelas: 13400-15100 mg/L [flow-through]

Ecotoxicity - Water Flea - Acute Toxicity Data

(2-Methoxymethylethoxy) 34590-94-8 48 Hr LC50 Daphnia magna: 1919 mg/L

propanol

1,2-Propanediol 57-55-6 24 Hr EC50 Daphnia magna: >10000 mg/L; 48 Hr EC50 Daphnia magna: >1000 mg/L [Static]

Distillates (petroleum), light hydrotreated 64742-47-8 96 Hr LC50 Den-dronereides heteropoda: 4720 mg/L

Ethanol 64-17-5 48 Hr LC50 Daphnia magna: 9268 - 14221 mg/L; 24 Hr EC50 Daphnia magna: 10800 mg/L; 48 Hr EC50 Daphnia magna: 2 mg/L [Static]

Environmental effects Not available

Aquatic toxicity Not available

Persistence / degradability Not available

Bioaccumulation / accumulation Not available

Partition coefficient Not available

Mobility in environmental media Not available

Chemical fate information Not available

13. Disposal Considerations

Waste codes Not available

Disposal instructions Dispose in accordance with all applicable regulations. Packaging and container to be recycled only if emptied completely. For bulk quantities dispose of in accordance with local, regional or national requirements.

Waste from residues / unused products Not available

Contaminated packaging Not available

14. Transport Information

UN/ID No. UN 1950

U.S. Department of Transportation (DOT)

UN 1950, Aerosols, Class 2.2 - Re-classed as Consumer Commodity ORM-D

Transportation of Dangerous Goods (TDG - Canada)

UN 1950, Aerosols, Class 2.2 - Re-classed as Consumer Commodity

IMDG (Marine Transport)

UN 1950, Aerosols, Class 2.2, Limited Quantity

IATA/ICAO (Air)

UN1950, Aerosols, Non Flammable, Class 2.2

15. Regulatory Information

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.

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical Yes

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes
 Delayed Hazard - No
 Fire Hazard - Yes
 Pressure Hazard - Yes
 Reactivity Hazard - No

Section 302 extremely hazardous substance No

Section 311 hazardous chemical Yes

Clean Air Act (CAA) Not available

Clean Water Act (CWA) Not available

State regulations This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

U.S. - California - 8 CCR Section 339 - Director's List of Hazardous Substances

(2-Methoxymethylethoxy) 34590-94-8 Present
 propanol

U.S. - Massachusetts - Right To Know List

(2-Methoxymethylethoxy) 34590-94-8 Present
 propanol
 Ethanol 64-17-5 Teratogen
 Propane 74-98-6 Present

U.S. - Minnesota - Hazardous Substance List

(2-Methoxymethylethoxy) 34590-94-8 Present
 propanol
 1,2-Propanediol 57-55-6 Present
 Ethanol 64-17-5 Present
 Propane 74-98-6 Simple asphyxiant

U.S. - New Jersey - Right to Know Hazardous Substance List

(2-Methoxymethylethoxy) 34590-94-8 sn 0804
 propanol
 1,2-Propanediol 57-55-6 sn 3595
 Ethanol 64-17-5 sn 0844
 Propane 74-98-6 sn 1594

U.S. - Pennsylvania - RTK (Right to Know) List

(2-Methoxymethylethoxy) 34590-94-8 Present
 propanol
 1,2-Propanediol 57-55-6 Present
 Ethanol 64-17-5 Present
 Propane 74-98-6 Present

U.S. - Rhode Island - Hazardous Substance List

(2-Methoxymethylethoxy) 34590-94-8 Toxic
 propanol
 1,2-Propanediol 57-55-6 Flammable
 Ethanol 64-17-5 Toxic; Flammable
 Propane 74-98-6 Toxic; Flammable

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	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

62338-00245 - RESOLVE® (formerly SPRAY'N WASH®) Laundry stain Remover - Pre-treat - Aerosol - 20 oz. - 363105

Issue date

20-Aug-2010

Effective date	15-Aug-2010
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.