

**1. Product and Company Identification**

**Product Name** RESOLVE® Large Area Carpet Cleaner Machine Solution - 2X Concentrated - All Variants

**CAS #** Mixture

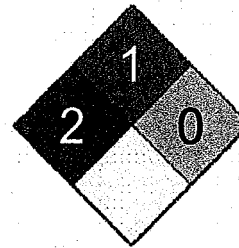
**Product Use** Carpet care

**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

*Resolve Professional  
Carpet Cleaner machine  
Solution*

LEGEND HMIS/NFPA	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Health	1	2
Flammability	1	
	0	
Personal Protection	B	



**2. Hazards Identification**

**Emergency overview** CAUTION  
 EYE IRRITANT.  
 May be irritating to 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** Eye irritant.

**Skin** May be a skin irritant.  
 Not expected to be a skin sensitizer.

**Inhalation** Not harmful.

**Ingestion** Not harmful.

**Target organs** Eyes. 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.

**OSHA Regulatory Status** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**Potential environmental effects** See section 12.

### 3. Composition / Information on Ingredients

Ingredient(s)	CAS #	Percent
Alcohols, C12-16, ethoxylated	68551-12-2	2.5 - 10
Tetrasodium ethylenediamine tetraacetate	64-02-8	2.5 - 10

### 4. First Aid Measures

#### First aid procedures

**Eye contact** If in eyes, 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** If on skin, IMMEDIATELY rinse with plenty of water. If irritation occurs, get medical attention.

**Inhalation** In case of accident, move the person to fresh air. Use only as directed.

**Ingestion** If swallowed, DO NOT induce vomiting. Call a physician or Poison Control Center IMMEDIATELY.

**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 OSHA criteria.

#### Extinguishing media

**Suitable extinguishing media** Water spray. Foam. Dry chemical.

**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** 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

**EYE IRRITANT.**  
Ensure adequate ventilation.  
DO NOT mix with bleach or other household chemicals as harmful fumes may result.  
Avoid contact with eyes and skin.  
Use good industrial hygiene practices in handling this material.  
Read and follow product label instructions.  
Wash hands thoroughly after use.

**Storage**

Store in a cool dry place inaccessible to children and pets.  
Keep in original container.

## 8. Exposure Controls / Personal Protection

**Exposure limits****Ingredient(s)****Exposure Limits**

Alcohols, C12-16, ethoxylated

**ACGIH-TLV**

Not established

**OSHA-PEL**

Not established

Tetrasodium ethylenediamine tetraacetate

**ACGIH-TLV**

Not established

**OSHA-PEL**TWA: 15 mg/m<sup>3</sup>**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**

Not normally required under normal use conditions. If splashes are likely to occur, wear: Safety goggles or glasses.  
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**

Washing with soap and water after use is recommended as good hygienic practice to prevent possible eye irritation from hand contact.  
Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and Chemical Properties

<b>Appearance</b>	Clear
<b>Color</b>	Amber
<b>Form</b>	aqueous solution
<b>Odor</b>	Characteristic
<b>Odor threshold</b>	Not available
<b>Physical state</b>	Liquid
<b>pH</b>	8.7 - 9.1
<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>	> 199.94 °F (> 93.3 °C)
<b>Auto-ignition temperature</b>	Not available
<b>Flammability limits in air, lower, % by volume</b>	Not available
<b>Flammability limits in air, upper, % by volume</b>	Not available
<b>Vapor pressure</b>	Not available

Vapor density	Not available
Specific gravity	1.010 - 1.040
Octanol/water coefficient	Not available
Solubility (H2O)	Complete
Viscosity	Not applicable

## 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	Acids. Caustics.
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
Tetrasodium ethylenediamine tetraacetate	Not available

### Component analysis - Oral LD50

Ingredient(s)	LD50
Alcohols, C12-16, ethoxylated	1380 mg/kg rat
Tetrasodium ethylenediamine tetraacetate	2000 mg/kg rat

### Effects of acute exposure

Eye	Eye irritant.
Skin	May be a skin irritant. Not expected to be a skin sensitizer.
Inhalation	Not harmful.
Ingestion	Not harmful.
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.
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

### Ecotoxicity - Freshwater Algae - Acute Toxicity Data

Tetrasodium ethylenediamine tetraacetate 64-02-8 72 Hr EC50 *Desmodesmus subspicatus*: 1.01 mg/L

### Ecotoxicity - Freshwater Fish - Acute Toxicity Data

Tetrasodium ethylenediamine tetraacetate 64-02-8 96 Hr LC50 *Lepomis macrochirus*: 41 mg/L [static]; 96 Hr LC50 *Pimephales promelas*: 59.8 mg/L [static]

### Ecotoxicity - Water Flea - Acute Toxicity Data

Tetrasodium ethylenediamine tetraacetate 64-02-8 24 Hr EC50 *Daphnia magna*: 610 mg/L

Persistence / 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

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### 13. Disposal Considerations

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Disposal instructions Dispose in accordance with all applicable regulations.  
Dispose of empty packaging with household trash or offer for recycling.

Waste from residues / unused products Not available

Contaminated packaging 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

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

<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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**Occupational Safety and Health Administration (OSHA)**

29 CFR 1910.1200 hazardous chemical Yes

**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.

**CERCLA (Superfund) reportable quantity**

Sodium hydroxide: 1000.0000  
Ammonium hydroxide: 1000.0000  
Formaldehyde: 100.0000  
Methanol: 5000.0000

**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

**Section 302 extremely hazardous substance** No

Section 311 hazardous chemical No

Clean Water Act (CWA)

Hazardous substance

State regulations

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

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)

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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® Large Area Carpet Cleaner Machine Solution - 2X Concentrated, 60 oz - 0338928v1.0  
RESOLVE® Large Area Carpet Cleaner Machine Solution - 2X Concentrated - Citrus, 60 oz - 0223768v1.0  
RESOLVE® Pet Large Area Carpet Cleaner Machine Solution - 2X Concentrated, 60 oz - 0223768v1.0

**Issue date**

12-Feb-2013

**Effective date**

01-Feb-2013

**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.