1. Product and Company Identification

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

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: 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

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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.

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

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alcohols, C12-16, ethoxylated</td>
<td>68551-12-2</td>
<td>2.5 - 10</td>
</tr>
<tr>
<td>Tetrasodium ethylenediamine tetraacetate</td>
<td>64-02-8</td>
<td>2.5 - 10</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alcohols, C12-16, ethoxylated</td>
<td>ACGIH-TLV</td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td></td>
<td>OSHA-PEL</td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td>Tetrasodium ethylenediamine tetraacetate</td>
<td>ACGIH-TLV</td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td></td>
<td>OSHA-PEL</td>
</tr>
<tr>
<td></td>
<td>TWA: 15 mg/m3</td>
</tr>
</tbody>
</table>

Engineering controls

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.

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear</td>
</tr>
<tr>
<td>Color</td>
<td>Amber</td>
</tr>
<tr>
<td>Form</td>
<td>aqueous solution</td>
</tr>
<tr>
<td>Odor</td>
<td>Characteristic</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>pH</td>
<td>8.7 - 9.1</td>
</tr>
<tr>
<td>Freezing point</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>Not available</td>
</tr>
<tr>
<td>Pour point</td>
<td>Not available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt; 199.94 °F (&gt; 93.3 °C)</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
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</tr>
<tr>
<td>Flammability limits in air, lower, % by volume</td>
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</tr>
<tr>
<td>Flammability limits in air, upper, % by volume</td>
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</tr>
<tr>
<td>Vapor pressure</td>
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</tr>
</tbody>
</table>
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.
Inhalation               Not expected to be a skin sensitizer.
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 - 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

### 13. Disposal Considerations

**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

### 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

<table>
<thead>
<tr>
<th>Field</th>
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</thead>
<tbody>
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<td>Proper shipping name</td>
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<tr>
<td>Class</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Subsidiary Risk</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Packing group</td>
<td>Not applicable</td>
</tr>
<tr>
<td>IMDG Page</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Marine pollutant</td>
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<tr>
<td>EMS</td>
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<td>MFAG</td>
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<td>Maximum Quantity</td>
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### IATA/ICAO (Air): Classification

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<th>Field</th>
<th>Value</th>
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<tbody>
<tr>
<td>Proper shipping name</td>
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<tr>
<td>Class</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Subsidiary Risk</td>
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<tr>
<td>Packing group</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Maximum Quantity</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

## 15. Regulatory Information

### 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

<table>
<thead>
<tr>
<th>Substance</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hydroxide</td>
<td>1000.0000</td>
</tr>
<tr>
<td>Ammonium hydroxide</td>
<td>1000.0000</td>
</tr>
<tr>
<td>Formaldehyde</td>
<td>100.0000</td>
</tr>
<tr>
<td>Methanol</td>
<td>5000.0000</td>
</tr>
</tbody>
</table>

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

<table>
<thead>
<tr>
<th>Hazard categories</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Immediate Hazard</td>
<td>Yes</td>
</tr>
<tr>
<td>Delayed Hazard</td>
<td>No</td>
</tr>
<tr>
<td>Fire Hazard</td>
<td>No</td>
</tr>
<tr>
<td>Pressure Hazard</td>
<td>No</td>
</tr>
<tr>
<td>Reactivity Hazard</td>
<td>No</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Section 302 extremely hazardous substance</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No</td>
</tr>
</tbody>
</table>
### 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

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

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**

**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.