1. Product and Company Identification

Product Name: CALGON® WATER SOFTENER (POWDER)

UPC CODES: Refer to Section 16

CAS #: Mixture

Product Use: Water softener

Manufacturer: 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

2. Hazards Identification

Emergency overview
CAUTION
EYE IRRITANT. Avoid contact with eyes.
MAY BE HARMFUL IF SWALLOWED.
DO NOT get in eyes.
DO NOT ingest.

KEEP OUT OF REACH OF CHILDREN.

Potential short term health effects

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

Eyes
Eye irritant.

Skin
May cause irritation upon overexposure.

Inhalation
Product not tested for inhalation toxicity.
May cause mild nasal irritation upon inhalation of dust.

Ingestion
Burning pain in mouth and throat.
Difficulty swallowing, excessive salivating in infants.
Reddening and swelling of mucous membranes of mouth and throat.

Target organs
Eyes. Skin.

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

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbonic acid, sodium salt (2:3)</td>
<td>533-96-0</td>
<td>40 - 60</td>
</tr>
<tr>
<td>Sodium citrate</td>
<td>6132-04-3</td>
<td>20 - 40</td>
</tr>
<tr>
<td>Sodium sulfate</td>
<td>7757-82-6</td>
<td>20 - 40</td>
</tr>
</tbody>
</table>
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
In keeping with good hygienic practices, wash exposed areas thoroughly with soap and water.

Inhalation
Remove to fresh air.

Ingestion
If swallowed, rinse mouth and drink a glass of water. Call a Physician or Poison Control Center.

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
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. Oxides of sulphur.

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.

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
CAUTION
CAUSES EYE IRRITATION. HARMFUL IF SWALLOWED. MAY CAUSE SKIN IRRITATION. Avoid contact with eyes and skin.
Use good industrial hygiene practices in handling this material.

Storage
Keep out of reach of children. Store in original container in a cool, secure area inaccessible to children and pets.
8. Exposure Controls / Personal Protection

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbonic acid, sodium salt (2:3)</td>
<td></td>
</tr>
<tr>
<td></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>Sodium citrate</td>
<td></td>
</tr>
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<td></td>
<td>ACGIH-TLV</td>
</tr>
<tr>
<td></td>
<td>Not established</td>
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<td>Not established</td>
</tr>
<tr>
<td></td>
<td>OSHA-PEL</td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
</tbody>
</table>

Engineering controls

General ventilation normally adequate.

Personal protective equipment

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
Wash off with soap and water. 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 airborne particles (dust) 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. Wash hands before breaks and immediately after handling the product.

9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Free-flowing</td>
</tr>
<tr>
<td>Color</td>
<td>White</td>
</tr>
<tr>
<td>Form</td>
<td>granular powder</td>
</tr>
<tr>
<td>Odor</td>
<td>Floral</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>Physical state</td>
<td>Solid</td>
</tr>
<tr>
<td>pH</td>
<td>10.5 (Basic)</td>
</tr>
<tr>
<td>Freezing point</td>
<td>Not available</td>
</tr>
<tr>
<td>Pour point</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability limits in air, lower, % by volume</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flammability limits in air, upper, % by volume</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Specific gravity</td>
<td>2.53 (Water = 1)(Sodium carbonate)</td>
</tr>
</tbody>
</table>
**10. Stability and Reactivity**

- **Chemical stability**: Stable under recommended storage conditions.
- **Conditions to avoid**: Do not mix with other chemicals.
- **Incompatible materials**: Acids.
- **Hazardous decomposition products**: May include and are not limited to: Oxides of carbon. Oxides of sulphur.
- **Possibility of hazardous reactions**: Hazardous polymerization does not occur.

**11. Toxicological Information**

### Component analysis - LC50

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbonic acid, sodium salt (2:3)</td>
<td>Not available</td>
</tr>
<tr>
<td>Sodium citrate</td>
<td>Not available</td>
</tr>
<tr>
<td>Sodium sulfate</td>
<td>Not available</td>
</tr>
</tbody>
</table>

### Component analysis - Oral LD50

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>LD50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbonic acid, sodium salt (2:3)</td>
<td>5600 mg/kg rat</td>
</tr>
<tr>
<td>Sodium citrate</td>
<td>Not available</td>
</tr>
<tr>
<td>Sodium sulfate</td>
<td>10000 mg/kg rat; 5989 mg/kg mouse</td>
</tr>
</tbody>
</table>

**Effects of acute exposure**

- **Eye**: Eye irritant.
- **Skin**: May cause irritation upon overexposure.
- **Inhalation**: Product not tested for inhalation toxicity, May cause mild nasal irritation upon inhalation of dust.
- **Ingestion**: Burning pain in mouth and throat, Difficulty swallowing, excessive salivating in infants, Reddening and swelling of mucous membranes of mouth and throat.

- **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.
- **Synergistic Materials**: Not available

**12. Ecological Information**

**Ecotoxicity - Freshwater Fish Species Data**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Date</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium sulfate</td>
<td>7757-82-6</td>
<td>96 Hr LC50 Pimephales promelas: 13500 - 14500 mg/L; 96 Hr LC50 Pimephales promelas: &gt;6800 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 3040 - 4380 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 13500 mg/L</td>
</tr>
</tbody>
</table>

**Ecotoxicity - Water Flea Data**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Date</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium sulfate</td>
<td>7757-82-6</td>
<td>96 Hr EC50 Daphnia magna: 630 mg/L; 48 Hr EC50 Daphnia magna: 2564 mg/L</td>
</tr>
</tbody>
</table>

**Environmental effects**: Not available

**Aquatic toxicity**: Not available

**Persistence / degradability**: Not available

**Bioaccumulation / accumulation**: Not available

**Partition coefficient**: Not available
13. Disposal Considerations

Waste codes Not available
Disposal instructions Dispose in accordance with all applicable regulations.
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: 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
  EMS Not applicable
  MFAG Not applicable
  Maximum Quantity Not applicable
15. Regulatory Information

US Federal regulations
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
CERCLA/SARA Hazardous Substances - Not applicable.

Occupational Safety and Health Administration (OSHA)
29 CFR 1910.1200 hazardous chemical Yes

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

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. - Massachusetts - Right To Know List
Sodium sulfate 7757-82-6 Present

U.S. - Pennsylvania - RTK (Right to Know) List
Sodium sulfate 7757-82-6 Environmental hazard

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
51700-20400 - CALGON WATER SOFTENER (POWDER) - 4O oz. - 372397

Issue date
21-Jan-2010

Effective date
15-Jan-2010
For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.