1. Product and Company Identification

Material name: PGP Cascade Automatic Dishwashing Detergent - Powder
Product Code: 15154321
Version #: 03
Revision date: 11-01-2010
Manufacturer: Procter & Gamble Professional
Address: 2 P&G Plaza
Cincinnati
Ohio
45202
US

P&G Telephone Number: 1-800-332-7787
Emergency 24-hr Telephone #: CHEMTREC 1-800-424-9300

2. Hazards Identification

Potential health effects
Routes of exposure
- Inhalation. Ingestion. Skin contact. Eye contact.
- Eyes: Accidental exposure will cause a mild but transient irritation.
- Skin: Mild skin irritation
- Inhalation: May be irritating.
- Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Potential environmental effects: Considering the limited amount applied during use and the size of the container, the risk of adverse effects is considered small.

3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>SODIUM CARBONATE</td>
<td>497-19-8</td>
<td>15-40</td>
</tr>
<tr>
<td>SODIUM SILICATE</td>
<td>1344-09-8</td>
<td>7-13</td>
</tr>
<tr>
<td>Sodium Dichloro-S-Triazinetrione dihydrate</td>
<td>2893-78-9</td>
<td>0.5-1.5</td>
</tr>
</tbody>
</table>

4. First Aid Measures

First aid procedures
- Eye contact: After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention if symptoms persist.
- Skin contact: Wash affected area with mild soap and water. Rinse with plenty of water. Get medical attention if irritation develops and persists.
- Inhalation: Move to fresh air. Call a physician if symptoms develop or persist.
- Ingestion: Give victim water or milk. Do not induce vomiting. Call a physician or Poison Control Center immediately.

5. Fire Fighting Measures

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not contaminate water.
Protection of firefighters

Protective equipment and precautions for firefighters

Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

6. Accidental Release Measures

Personal precautions
Keep unnecessary personnel away. Wear suitable protective clothing.

Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not contaminate water.

Clean-up methods and materials and containment measures
In case of spills, beware of slippery floors and surfaces. Sweep or scoop up and remove. Following product recovery, flush area with water.

7. Handling and Storage

Handling
Use personal protective equipment as required. Avoid contact with skin. Keep container closed when not in use. Never return spills in original containers for re-use. Keep out of reach of children.

Storage
Store in a cool and well-ventilated place. Keep away from moisture.

8. Exposure Controls / Personal Protection

Engineering controls
Provide adequate ventilation.

Personal protective equipment

Eye / face protection
Not normally needed.

Skin protection
Not normally needed. If prolonged or repeated contact is likely, protective gloves are recommended. Neoprene gloves. Rubber gloves.

Respiratory protection
Not normally needed.

General hygiene considerations
Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Color
White.

Odor
Scented

Odor threshold
Not available.

Physical state
Solid.

pH
10.7 - 11.3

Melting point
Not available.

Freezing point
Not available.

Boiling point
Not available.

Flash point
Not available.

Evaporation rate
Not available.

Vapor pressure
Not available.

Specific gravity
Not available.

Solubility (water)
Nearly 100% at 20°C

Partition coefficient (n-octanol/water)
Not available

VOC
0 % estimated

Percent volatile
0 % estimated estimated

10. Chemical Stability & Reactivity Information

Chemical stability
This is a stable material.

Conditions to avoid
Do not store near acids. or Ammonia.

Hazardous decomposition products
Chlorine gas

Hazardous polymerization
Will not occur.
11. Toxicological Information

<table>
<thead>
<tr>
<th>Components</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>SODIUM SILICATE (1344-09-8)</td>
<td>Acute Oral LD50 Mouse: 1100 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Acute Oral LD50 Rat: 1.1 g/kg</td>
</tr>
<tr>
<td>Sodium Dichloro-S-Triazinetrione dihydrate (2893-78-9)</td>
<td>Acute Oral LD50 Rat: 1420 mg/kg</td>
</tr>
<tr>
<td>SODIUM CARBONATE (497-19-8)</td>
<td>Acute Inhalation LC50 Guinea pig: 0.8 mg/l 2.00 Hours</td>
</tr>
<tr>
<td></td>
<td>Acute Inhalation LC50 Mouse: 1.2 mg/l 2.00 Hours</td>
</tr>
<tr>
<td></td>
<td>Acute Inhalation LC50 Rat: 2.3 mg/l 2.00 Hours</td>
</tr>
<tr>
<td></td>
<td>Acute Oral LD50 Rat: 4090 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Acute Other LD50 Mouse: 116.6 mg/kg 30.00 Days</td>
</tr>
</tbody>
</table>

Sensitization
Not available.

Local effects
Irritating to respiratory system. Irritating to eyes. Irritating to skin.

Chronic effects
Not available.

Skin corrosion/irritation
Not available.

12. Ecological Information

Environmental effects
Based on ecotoxicity and fate data for the individual ingredients in this specific formulation, and for related consumer household cleaning products formulations, this product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment at relevant environmental concentrations. This product is intended for dispersive use and should not be disposed of directly into the environment.

13. Disposal Considerations

Disposal instructions
This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

14. Transport Information

DOT
Not regulated as dangerous goods.

IMDG
Not regulated as dangerous goods.

IATA
Not regulated as dangerous goods.

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 (Superfund) reportable quantity
SODIUM TRIPOLYPHOSPHATE: 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 | Yes |
State regulations

ILLRTK

Contains no Illinois Right To Know toxic substances.


Sodium Dichloro-S-Triazinetrione dihydrate (CAS 2893-78-9) LISTED
SODIUM TRIPOLYPHOSPHATE (CAS 7758-29-4) LISTED

US - Massachusetts RTK - Substance: Listed substance

Sodium Dichloro-S-Triazinetrione dihydrate (CAS 2893-78-9) LISTED
SODIUM SULPHATE (CAS 7757-82-6) LISTED
SODIUM TRIPOLYPHOSPHATE (CAS 7758-29-4) LISTED

US - New Jersey RTK - Special Hazard: Listed substance

Contains no New Jersey Right To Know special hazards.

US - New Jersey RTK - Substances: Listed substance

Sodium Dichloro-S-Triazinetrione dihydrate (CAS 2893-78-9) LISTED
SODIUM TRIPOLYPHOSPHATE (CAS 7758-29-4) LISTED

US - Pennsylvania RTK - Hazardous Substances: Listed substance

Sodium Dichloro-S-Triazinetrione dihydrate (CAS 2893-78-9) LISTED
SODIUM TRIPOLYPHOSPHATE (CAS 7758-29-4) LISTED

US - Rhode Island RTK - Hazardous Substances: Listed substance

Sodium Dichloro-S-Triazinetrione dihydrate (CAS 2893-78-9) LISTED

Canadian regulations

All ingredients are CEPA approved for import to Canada by Procter & Gamble. This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

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)

16. Other Information

HMIS® ratings

Health: 2
Flammability: 0
Physical hazard: 0

NFPA ratings

Health: 2
Flammability: 0
Instability: 0
Special hazards:

Disclaimer

This MSDS is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. The information contained here has been compiled from sources considered by Procter & Gamble to be dependable and is accurate to the best of the Company's knowledge. It is not meant to be an all-inclusive document on worldwide hazard communication regulations.

This information is offered in good faith. Each user of this material needs to evaluate the conditions of use and design the appropriate protective mechanisms to prevent employee exposures, property damage or release to the environment. Procter & Gamble assumes no responsibility for injury to the recipient or third persons, or for any damage to any property resulting from misuse of the product.