1. IDENTIFICATION

Product Name: Cascade Dishwasher Cleaner
Product ID: 96377926_RET_NG
Product Type: Finished Product - Consumer (Retail) Use Only
Recommended Use: Dish Care
Restrictions on Use: Use only as directed on label.
Manufacturer: PROCTER & GAMBLE - Fabric and Home Care Division. Ivorydale Technical Centre.
5289 Spring Grove Avenue, Cincinnati, Ohio 45217-1087 USA
E-mail Address: pgsds.im@pg.com
Emergency Telephone: Transportation (24 HR) CHEMTREC - 1-800-424-9300
(U.S./ Canada) or 1-703-527-3887
Mexico toll free in country: 800-681-9531

2. HAZARD IDENTIFICATION

"Consumer Products", as defined by the US Consumer Product Safety Act and which are used as intended (typical consumer duration and frequency), are exempt from the OSHA Hazard Communication Standard (29 CFR 1910.1200). This SDS is being provided as a courtesy to help assist in the safe handling and proper use of the product.

This product is classified under 29CFR 1910.1200(d) and the Canadian Hazardous Products Regulation as follows:

Hazard Category
Eye Damage / Irritation Category 1
Signal Word: DANGER

Hazard Statements
Causes serious eye damage

Precautionary Statements - Prevention
Do not breathe mist
Wash hands thoroughly after handling
Wear eye/face protection
3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients are listed according to 29CFR 1910.1200 Appendix D and the Canadian Hazardous Products Regulation.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Synonyms</th>
<th>Trade Secret</th>
<th>CAS-No</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,2,3-Propanetricarboxylic acid, 2-hydroxy-, hydrate (1:1)</td>
<td>-</td>
<td>No</td>
<td>5949-29-1</td>
<td>40 - 100</td>
</tr>
<tr>
<td>Quartz (SiO2)</td>
<td>-</td>
<td>No</td>
<td>14808-60-7</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Poly(oxy-1,2-ethanediyl), alpha-tridecyl-omega-hydroxy-, branched</td>
<td>-</td>
<td>No</td>
<td>69011-36-5</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Oxirane, 2-methyl-, polymer with oxirane, mono(2-propylheptyl) ether</td>
<td>-</td>
<td>No</td>
<td>166736-08-9</td>
<td>1 - 5</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

First aid measures for different exposure routes

Eye contact  Rinse with plenty of water. Call a physician immediately.

Skin contact  Rinse with plenty of water. Get medical attention if irritation develops and persists.

Ingestion  Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately if symptoms occur.

Inhalation  IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician or poison control center immediately.

Most important symptoms/effects, acute and delayed  None under normal use conditions.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to Physician  Treat symptomatically.

5. FIRE-FIGHTING MEASURES
Suitable extinguishing media  Dry chemical, CO₂, alcohol-resistant foam or water spray.

Unsuitable Extinguishing Media  None.

Special hazard  None known.

Special protective equipment for fire-fighters  As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Specific hazards arising from the chemical  None.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions  Use personal protective equipment. Do not get in eyes, on skin, or on clothing.

Advice for emergency responders  Use personal protective equipment as required.

Methods and materials for containment and cleaning up

Methods for containment  Prevent dust cloud. Prevent further leakage or spillage if safe to do so.

Methods for cleaning up  Sweep up and shovel into suitable containers for disposal. Dispose of in accordance with local regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling  Use personal protective equipment as required. Keep container closed when not in use. Never return spills in original containers for re-use. Keep out of the reach of children.

Conditions for safe storage, including any incompatibilities

Storage Conditions  Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible products  None known.

8. EXPOSURE CONTROLS/PERSOANL PROTECTION

Control parameters

Exposure Guidelines

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>Mexico PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quartz (SiO₂)</td>
<td>14808-60-7</td>
<td>TWA: 0.025 mg/m³ respirable fraction</td>
<td>(vacated) TWA: 0.1 mg/m³ respirable dust</td>
<td>TWA: 0.1 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA total dust: (30)/(%SiO₂ + 2) mg/m³</td>
<td>TWA: 0.1 mg/m³</td>
<td>TWA: 0.025 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>mppcf TWA respirable fraction: (250)/(%SiO₂ + 5)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA respirable fraction: (10)/(%SiO₂ + 2) mg/m³</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Alberta: TWA: 0.025 mg/m³</th>
<th>Quebec: TWA: 0.1 mg/m³</th>
<th>Ontario TWAEV: TWA: 0.10 mg/m³</th>
<th>British Columbia: TWA: 0.025 mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quartz (SiO₂)</td>
<td>14808-60-7</td>
<td>TWA: 0.025 mg/m³</td>
<td>TWA: 0.1 mg/m³</td>
<td>TWA: 0.10 mg/m³</td>
<td>TWA: 0.025 mg/m³</td>
</tr>
</tbody>
</table>

No relevant exposure guidelines for other ingredients

Exposure controls
Engineering Measures

Ensure adequate ventilation

Product Manufacturing Plant (needed at Product-Producing Plant ONLY):
Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction

Personal Protective Equipment

Eye Protection

Distribution, Workplace and Household Settings:
Requires Eye Protection

Product Manufacturing Plant (needed at Product-Producing Plant ONLY):
Safety glasses with side-shields
If splashes are likely to occur, wear:
Tightly fitting safety goggles

Hand Protection

Distribution, Workplace and Household Settings:
No special protective equipment required

Product Manufacturing Plant (needed at Product-Producing Plant ONLY):
Protective gloves

Skin and Body Protection

Distribution, Workplace and Household Settings:
No special protective equipment required

Product Manufacturing Plant (needed at Product-Producing Plant ONLY):
Wear suitable protective clothing

Respiratory Protection

Distribution, Workplace and Household Settings:
No special protective equipment required

Product Manufacturing Plant (needed at Product-Producing Plant ONLY):
In case of insufficient ventilation wear suitable respiratory equipment

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State @20°C</td>
<td>solid</td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>Dual-phase white powder blue liquid</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>Scented</td>
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</tr>
<tr>
<td>Odor threshold</td>
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<td></td>
</tr>
<tr>
<td>pH value</td>
<td>2.15</td>
<td>10% aqueous solution</td>
</tr>
<tr>
<td>Melting/freezing point</td>
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</tr>
<tr>
<td>Boiling point/boiling range</td>
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<td></td>
</tr>
<tr>
<td>Flash point</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
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<td></td>
</tr>
<tr>
<td>Flammability Limits in Air</td>
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<td></td>
</tr>
<tr>
<td>Upper flammability limit</td>
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<td></td>
</tr>
<tr>
<td>Lower Flammability Limit</td>
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<td></td>
</tr>
<tr>
<td>Vapor pressure</td>
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<tr>
<td>Vapor density</td>
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<tr>
<td>Relative density</td>
<td>821 g/L</td>
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<tr>
<td>Water solubility</td>
<td>100%</td>
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</tr>
<tr>
<td>Solubility in other solvents</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No information available</td>
<td></td>
</tr>
</tbody>
</table>
10. STABILITY AND REACTIVITY

Reactivity
None under normal use conditions.

Stability
Stable under normal conditions.

Hazardous polymerization
Hazardous polymerization does not occur.

Hazardous Reactions
None under normal processing.

Conditions to Avoid
None under normal processing.

Materials to avoid
None in particular.

Hazardous Decomposition Products
None under normal use.

11. TOXICOLOGICAL INFORMATION

Product Information
Information on likely routes of exposure

Inhalation
No known effect.

Skin contact
No known effect.

Ingestion
No known effect.

Eye contact
Risk of serious damage to eyes.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Acute toxicity
No known effect.

Skin corrosion/irritation
No known effect.

Serious eye damage/eye irritation
Risk of serious damage to eyes.

Skin sensitization
No known effect.

Respiratory sensitization
No known effect.

Germ cell mutagenicity
No known effect.

Neurological Effects
No known effect.

Reproductive toxicity
No known effect.

Developmental toxicity
No known effect.

Teratogenicity
No known effect.

STOT - single exposure
No known effect.

STOT - repeated exposure
No known effect.

Target Organ Effects
No known effect.

Aspiration hazard
No known effect.

Carcinogenicity
No known effect.

12. ECOLOGICAL INFORMATION

Ecotoxicity
The product is not expected to be hazardous to the environment.

Persistence and degradability
No information available.

Bioaccumulative potential
No information available.
13. DISPOSAL CONSIDERATIONS

**Waste treatment**

**Waste from Residues / Unused Products**
Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated packaging**
Disposal should be in accordance with applicable regional, national and local laws and regulations.

**California Hazardous Waste Codes**
(non-household setting)

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14. TRANSPORT INFORMATION

**DOT**
Not regulated

**IMDG**
Not regulated

**IATA**
Not regulated

15. REGULATORY INFORMATION

**U.S. Federal Regulations**

**SARA 313**
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**CERCLA**
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**
This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

**Clean Water Act**
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

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

**U.S. State Regulations (RTK)**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>New Jersey</th>
<th>Massachusetts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quartz (SiO2)</td>
<td>14808-60-7</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>
**International Inventories**

**United States**
All intentionally-added components of this product(s) are listed on the US TSCA Inventory.

**Canada**
This product is in compliance with CEPA for import by P&G.

**Legend**
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
CEPA - Canadian Environmental Protection Act

### 16. OTHER INFORMATION

**Issuing Date:** 26-Mar-2015  
**Revision Date:** 26-Mar-2015  
**Disclaimer**
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

*End of SDS*