

SAFETY DATA SHEET



Issuing Date: 26-Mar-2015

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Version 1

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

Hazard pictograms



Precautionary Statements - Prevention

Do not breathe mist
Wash hands thoroughly after handling
Wear eye/face protection

Use with ventilation.

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 Immediately call a POISON CENTER or doctor/physician
 IF SWALLOWED: Rinse mouth. DO NOT induce vomiting.
 Drink 1 or 2 glasses of water
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing

Precautionary Statements - Storage

None

Precautionary Statements - Disposal

None

Hazards not otherwise classified (HNOC)

None

3. COMPOSITION/INFORMATION ON INGREDIENTS

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

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

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, CO ₂ , 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/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

| Chemical Name | CAS-No | ACGIH TLV | OSHA PEL | Mexico PEL |
|----------------------------|------------|---|---|-----------------------------------|
| Quartz (SiO ₂) | 14808-60-7 | TWA: 0.025 mg/m ³ respirable fraction | (vacated) TWA: 0.1 mg/m ³ respirable dust : (30)/(%SiO ₂ + 2) mg/m ³ TWA total dust : (250)/(%SiO ₂ + 5) mppcf TWA respirable fraction : (10)/(%SiO ₂ + 2) mg/m ³ TWA respirable fraction | Mexico: TWA 0.1 mg/m ³ |

| Chemical Name | CAS-No | Alberta | Quebec | Ontario TWAEV | British Columbia |
|----------------------------|------------|------------------------------|----------------------------|-----------------------------|------------------------------|
| Quartz (SiO ₂) | 14808-60-7 | TWA: 0.025 mg/m ³ | TWA: 0.1 mg/m ³ | TWA: 0.10 mg/m ³ | TWA: 0.025 mg/m ³ |

No relevant exposure guidelines for other ingredients

Exposure controls

Engineering Measures

Distribution, Workplace and Household Settings:
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

Physical State @20°C

solid

Appearance

Dual-phase white powder blue liquid

Odor

Scented

Odor threshold

No information available

Property**Values****Note****pH value**

2.15

10% aqueous solution

Melting/freezing point

No information available

Boiling point/boiling range

No information available

Flash point

No information available

Evaporation rate

No information available

Flammability (solid, gas)

No information available

Flammability Limits in Air**Upper flammability limit**

No information available

Lower Flammability Limit

No information available

Vapor pressure

No information available

Vapor density

No information available

Relative density

821 g/L

Water solubility

100%

Solubility in other solvents

No information available

Partition coefficient: n-octanol/water

No information available

| | | |
|----------------------------------|---|---|
| Autoignition temperature | No information available | . |
| Decomposition temperature | No information available | . |
| Viscosity of Product | No information available | . |
| VOC Content (%) | Products comply with US state and federal regulations for VOC content in consumer products. | |

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. |

Mobility No information available.

Other adverse effects 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) 331

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)

| Chemical Name | CAS-No | New Jersey |
|----------------------------|------------|---------------|
| Quartz (SiO ₂) | 14808-60-7 | X |
| Chemical Name | CAS-No | Massachusetts |

| | | |
|----------------------------|---------------|---------------------|
| Quartz (SiO ₂) | 14808-60-7 | X |
| Chemical Name | CAS-No | Pennsylvania |
| Quartz (SiO ₂) | 14808-60-7 | X |
| Dipropylene glycol | 25265-71-8 | X |

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

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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