

Procter & Gamble

Professional[®]

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name PGP Cascade Automatic Dishwashing Detergent - Powder
Product Code 15154321
Version # 03
Revision date 11-01-2010
Manufacturer Address Procter & Gamble Professional
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

Components	CAS #	Percent
SODIUM CARBONATE	497-19-8	15-40
SODIUM SILICATE	1344-09-8	7-13
Sodium Dichloro-S-Triazinetrione dihydrate	2893-78-9	0.5-1.5

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.

Extinguishing media

Suitable extinguishing media Water. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).

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

Toxicological data

Components

Test Results

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

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.
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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.
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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.
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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
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Section 302 extremely hazardous substance No

Section 311 hazardous chemical Yes

State regulations

ILLRTK

Contains no Illinois Right To Know toxic substances.

US - Connecticut Hazardous Material Survey: Listed substance

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

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

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.