



Procter & Gamble
 Fabric & Home Care Division
 Ivorydale Technical Center
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MATERIAL SAFETY DATA SHEET

MSDS #: FH/A/2004/BWBN-5WZPZ (S)

Issue Date: 3/12/04

Supersedes:

Issue Date:

SECTION I - PRODUCT IDENTIFICATION		
Identity:	Automatic Dishwashing Detergent Gel	
Brands:	CASCADE PURE RINSE GEL	
Hazard Rating:	3	
Health:	2	4= EXTREME
Flammability:	0	3= HIGH
Reactivity:	2	2= MODERATE
		1= SLIGHT
Emergency Telephone Number: 1-800-765-5516 or call Local Poison Control Center		

SECTION II - COMPOSITION AND INGREDIENTS					
<p><u>Ingredients/Chemical Name:</u> Water softeners (potassium and/or sodium complex phosphates, and/or carbonate salts), cleaning agent (chlorine bleach), dishware, flatware, and dishwasher protection agents (sodium and potassium silicates), water, thickening agent, buffering agent, stabilizing agent, colorant, and perfume.</p> <p>This mixture, when tested as a whole, is considered an eye and skin irritant within the meaning of the OSHA Hazard Communication Standard.</p> <p>Hazardous Ingredients as defined by OSHA, 29 CFR 1910.1200., and/or WHMIS under the HPA:</p>					
Chemical Name	Common Name	CAS No.	Recommended Limits	Composition Range	LD50 and/or LC50
Hypochlorous acid, sodium salt	Bleach	7681-52-9	WEEL STEL: 2 mg/m ³	1-5%	8.91 g/kg (rats, oral)
Potassium hydroxide	Caustic Potash	1310-58-3	ACGIH TLV: 2 mg/m ³	1-5%	1.2 g/kg (rats, oral)
Sodium hydroxide	Caustic soda	1310-73-2	ACGIH TLV: 2 mg/m ³	1-5%	500 mg/kg (10% solution, rats, oral)
Silicic Acid, Sodium salt	Sodium Silicate	1344-09-8	Not Established	5-10%	~ 1 g/kg (rats, oral)

SECTION III - HAZARDS IDENTIFICATION

Health Hazards (Acute and Chronic):

- Ingestion: Harmful if swallowed or put in mouth. Esophageal irritation possible with exposure to more than one mouthful. Do not induce emesis or further irritation may result from re-exposure.
- Eye Contact: Contact may cause irritation.
- Skin: Irritating to skin
- Inhalation: None.

Signs and Symptoms of Exposure:

- Ingestion: Irritation of the mouth and gastrointestinal tract, with nausea, vomiting, and diarrhea. Substantial ingestions may produce hematemesis and possibly moderate to severe gastrointestinal irritation. Esophageal stricture formation is not expected.
- Eye Contact: May cause stinging, tearing, itching, swelling, and/or redness of the eyes.
- Skin: May result in transient skin irritation (redness, swelling) upon prolonged contact with undiluted material.
- Inhalation: None known.

SECTION IV - FIRST AID INFORMATION

Emergency and First Aid Procedures:

- Ingestion: Give milk or water. Call a physician. Do not induce emesis.
- Eye Contact: Flush eyes thoroughly with water.
- Skin: Rinse exposed area with water.
- Inhalation: Move exposed individual to fresh air.


Other: Consumer product packages have a caution statement: "CAUTION: IRRITANT. HARMFUL IF SWALLOWED OR PUT IN MOUTH. MAY IRRITATE EYES OR SKIN. KEEP OUT OF REACH OF CHILDREN. CAUTION: DANGEROUS FUMES FORM WHEN MIXED WITH OTHER PRODUCTS. Do not mix with dishwashing liquids, ammonia, or other cleaning products. Do not get in eyes. Do not get on skin or clothing. Do not breathe fumes. KEEP OUT OF REACH OF CHILDREN. Do not let young children use bottle or touch product in dishwasher. Not for hand dishwashing. Do not reuse bottle. Screw on protective cap tightly after use. FIRST AID TREATMENT: Contains potassium and sodium hydroxides, sodium silicate and chlorine bleach. If swallowed or gets in mouth, rinse mouth, give a glassful of water or milk and call a Poison Control Center or doctor immediately. Do not induce vomiting. If in eyes, rinse well with water for 15 minutes. If on skin, rinse well with water.

SECTION V - FIRE FIGHTING INFORMATION

- Flash Point: > 200 °F
- Explosive Limits: LEL: N/K
- Method Used: PM Closed Cup
- UEL: N/K
- Extinguishing Media: N/K
- Special Fire Fighting Procedures: None.
- Unusual Fire Hazards: None known.
- Stability: Unstable:
- Stable:
- Conditions to Avoid: None known

Incompatibility (Materials to Avoid): Acids, ammonia, aluminum and iron-containing compounds.

Hazardous Decomposition/By Products: Dangerous hypochlorous acid and irritating chloramine gas are released.

Hazardous Polymerization: *May Occur:* *Conditions to Avoid:*  See "Incompatibility" above.
Will Not Occur:

SECTION VI - ACCIDENTAL RELEASE MEASURES

Personal Precautions: Prior to exposure, cover any exposed skin and eyes. Peel off and wash any clothing that becomes wet with the product.

Environmental Precautions: DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH ALL FEDERAL, STATE/PROVINCIAL AND LOCAL REGULATIONS. Undiluted waste product from this product would be RCRA "Corrosive" hazardous waste. Do not landfill. Do not sewer without pH neutralization first. Household waste may be disposed of down the sewer.

Steps To Be Taken in Case Material is Released or Spilled: Contain the spill. Try to prevent from reaching waterway or sewer. Cascade Pure Rinse Gel is a RCRA "Corrosive" liquid because of its high pH.

SECTION VII - HANDLING AND STORAGE

Precautions To Be Taken in Handling and Storing: None

Other Precautions: None.

SECTION VIII - EXPOSURE CONTROLS, PERSONAL PROTECTION

This section only applies to the product when used in an industrial setting.

Respiratory Protection (Specify Type): None required with normal use.

Ventilation: *Local Exhaust:* None required with normal use.

Special: None.

Mechanical (General): General dilution ventilation is acceptable.

Other: None.

Eye Protection: For splash protection use chemical goggles. Eye wash fountain is desirable.

Protective Gloves: Protective gloves (rubber, neoprene) should be used for any direct contact.

Other Protective Equipment: Cover clothes as spills will bleach your clothing.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point (°F): N/K

Specific Gravity (H₂O=1): 1.35 g/cc

Vapor Pressure (mm Hg): N/K

Percent Volatile by Volume (%): < 1%

Vapor Density (Air=1): N/K

Evaporation Rate (nBuOAc=1): N/K

Odor Threshold: N/K

Freezing Point: N/K

Coefficient of Water/Oil Distribution: N/K

pH (1% solution): 11.0

Viscosity: N/K

Reserve Alkalinity: ~3.0

Scooped Density: N/A

Solubility in Water: Miscible with water. Contains small amounts of insoluble, colloidal size particles.

Appearance and Odor: Creamy white or yellow thick, viscous gel. Products are perfumed.

Physical State: Liquid gel at 20°C.

SECTION X - STABILITY AND REACTIVITY

Possible Hazardous Reactions/Conditions: None known.
Conditions to Avoid: None known.
Materials to Avoid: Acids, ammonia, aluminum and iron-containing compounds.
Hazardous Decomposition Products: Dangerous hypochlorous acid and irritating chloramine gas are released.
Other Recommendations: None.

SECTION XI - TOXICOLOGICAL INFORMATION

LD50: estimated acute oral LD50 (rats) >2g/kg
 ED50: Not necessarily strongly emetic.
 Irritating to eye and skin after prolonged, direct contact.

SECTION XII - ECOLOGICAL INFORMATION

Cascade Pure Rinse Gel is compatible with septic tank systems. The product should not be disposed of directly into the environment.

SECTION XIII - DISPOSAL CONSIDERATIONS

Waste Disposal Method: DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH ALL FEDERAL, STATE/PROVINCIAL AND LOCAL REGULATIONS. Undiluted waste product from this product would be RCRA "Corrosive" hazardous waste. Do not landfill. Hazardous waste treatment to reduce the pH is necessary prior to disposal. Household waste may be disposed of down sewer.

SECTION XIV - TRANSPORT INFORMATION

This material is regulated by the US Department of Transportation.
 For finished packaged product transported by ground: **ORM-D Consumer commodity**
 For finished packaged product transported by air: **Corrosive liquid, basic, inorganic, n.o.s. (Sodium hypochlorite, Sodium hydroxide), 8, UN3266, PG III.**

SECTION XV - ADDITIONAL REGULATORY INFORMATION

No components subject to California Prop. 65. All components are listed on US TSCA Inventory. No components are affected by Significant New Use Rules (SNURs) under TSCA §5.

Chemical Name	CAS Number	CERCLA Reportable Quantity (RQ) (LBS)
Nitric acid	7697-37-2	1000 lbs.
Potassium hydroxide	1310-58-3	1000 lbs.
Sodium hypochlorite	7681-52-9	100 lbs.
Sodium hydroxide	1310-73-2	1000 lbs.
Sodium phosphate, tribasic	7610-54-9	5000 lbs.
Zinc salts	Mixture	1000 lbs.

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

SECTION XVI - OTHER INFORMATION****N/A. - Not Applicable******N/K. - Not Known**

The submission of this MSDS may be required by law, but this is not an assertion that the substance is hazardous when used in accordance with proper safety practices and normal handling procedures. Data supplied is for use only in connection with occupational safety and health.

The information contained herein has been compiled from sources considered by Procter & Gamble to be dependable and is accurate to the best of the Company's knowledge. The information relates to the specific material designated herein, and does not relate to the use in combination with any other material or any other process. Procter & Gamble assumed no responsibility for injury to the recipient or third persons, for any damage to any property resulting from misuse of the controlled product.