



Procter & Gamble
 Fabric & Home Care Division
 Ivorydale Technical Center
 5299 Spring Grove Avenue
 Cincinnati, OH 45217-1087

MATERIAL SAFETY DATA SHEET

MSDS #: FH/A/2002/JMJJ-59JVXX

Issue Date: **02/02/05**

Supersedes: FH/A/2001/HEHH-54RFKS

Issue Date: **02/07/02**

SECTION I - PRODUCT IDENTIFICATION

Identity: **Automatic Dishwashing Detergent Tablet**

Brands: **CASCADE POWER TABS**

Hazard Rating: ██████	Health: 1	4= EXTREME
	Flammability: 0	3= HIGH
	Reactivity: 0	2= MODERATE
		1= SLIGHT

Emergency Telephone Number: 1-800-765-5516 or call Local Poison Control Center

SECTION II - COMPOSITION AND INGREDIENTS

Ingredients/Chemical Name: Complex sodium phosphates and sodium carbonate, enzymes, oxygen bleach, nonionic wetting agents, sodium silicate, binding agents, dyes, perfume.

Hazardous Ingredients as defined by OSHA, 29 CFR 1910.1200., and/or WHMIS under the HPA:

<u>Chemical Name</u>	<u>Common Name</u>	<u>CAS No.</u>	<u>Recommended Limits</u>	<u>Composition Range</u>	<u>LD50 and/or LC50</u>
Carbonic Acid, Disodium Salt	Sodium Carbonate (Soda ash)	497-19-8	N/K	15-40%	1.9 g/kg (rats, oral)
Perboric acid, sodium salt	Sodium Perborate	7632-04-4	N/K	10-30%	>1.1 g/kg (rats, oral)
Silicic acid, disodium salt	Sodium Silicate	13870-28-5	N/K	5-10%	~2.5 g/kg (rats, oral)
Silicic acid, sodium salt	Sodium Silicate	1344-09-8	N/K	3-7%	~1.8 g/kg (rats, oral)

SECTION III - HAZARDS IDENTIFICATION	
Health Hazards (Acute and Chronic):	
Ingestion:	Tablet or tablet fragments may present a choking hazard. [REDACTED]
Eye Contact:	May cause moderate, transient irritation, including redness.
Skin:	May cause moderate, transient irritation, including dryness. [REDACTED]
Inhalation:	[REDACTED]
Signs and Symptoms of Exposure:	
Ingestion:	Ingestion may result in tablet lodging causing moderate to severe upper gastrointestinal irritation, burning, discomfort or corrosion of tissue which may impede a person's ability to speak or swallow.
Eye Contact:	Contact may cause moderate, transient irritation, including redness.
Skin:	Contact may cause moderate, transient irritation, including dryness.
Inhalation:	Inhalation exposure is not expected based on product form.

SECTION IV - FIRST AID INFORMATION	
Emergency and First Aid Procedures:	
Ingestion:	If swallowed, do NOT induce vomiting. Give a glassful of milk or water and call a poison control centre or physician immediately.
Eye Contact:	Flush eyes with water for 15 minutes.
Skin:	Rinse exposed area with water.
Inhalation:	[REDACTED]
Other:	Consumer product packages have a caution statement: "Front Panel: CAUTION: IRRITANT. HARMFUL IF SWALLOWED OR PUT IN MOUTH. MAY IRRITATE EYES OR SKIN. KEEP OUT OF REACH OF CHILDREN. Side Panel: CAUTION: Do not get in eyes. Do not get on skin or clothing. KEEP OUT OF REACH OF CHILDREN. Tablet fragments may present a choking hazard. Do not let children touch product in dishwasher. After placing tablet in dispenser cup, close immediately. Do not break tablets. Safely discard any tablet fragments."

SECTION V - FIRE FIGHTING INFORMATION	
Flash Point: N/A [REDACTED]	Explosive Limits: LEL: N/A
Method Used: N/A	UEL: N/A
Extinguishing Media: CO2, water, or dry chemical may be used.	
Special Fire Fighting Procedures: None.	
Unusual Fire Hazards: None known.	
Stability	<i>Unstable:</i> <input type="checkbox"/>
	<i>Stable:</i> <input checked="" type="checkbox"/>
	<i>Conditions to Avoid:</i> None known.
Incompatibility (Materials to Avoid): None known.	
Hazardous Decomposition/By Products: None known.	
Hazardous Polymerization:	<i>May Occur:</i> <input type="checkbox"/>
	<i>Will Not Occur:</i> <input checked="" type="checkbox"/>
	<i>Conditions to Avoid:</i> None known.

SECTION VI - ACCIDENTAL RELEASE MEASURES

Personal Precautions: None.

Environmental Precautions: DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH ALL FEDERAL, STATE/PROVINCIAL AND LOCAL REGULATIONS. Household solutions may be disposed of in sewer. Dry product may be landfilled if acceptable to local landfill.

Steps To Be Taken in Case Material is Released or Spilled: Minimize dust levels while collecting product (see "inhalation" health effects). Dispose of according to local regulations.

SECTION VII - HANDLING AND STORAGE

Precautions To Be Taken in Handling and Storing: Store in a cool, dry, ventilated area

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.

Special: None.

Mechanical (General): General dilution ventilation is acceptable.

Other: None.

Eye Protection: If a splash is likely, use chemical goggles for protection.

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

Other Protective Equipment: None required with normal use.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point (°F): N/A

Vapor Pressure (mm Hg): N/A

Vapor Density (Air=1): N/A

Odor Threshold: N/A

Coefficient of Water/Oil Distribution: N/A

Viscosity: N/A

Scooped Density: N/A

Appearance and Odor: White granular tablet with blue and green speckles and blue dimple. Product is perfumed.

Specific Gravity (H₂O=1): ~1.65

Percent Volatile by Volume (%): N/A

Evaporation Rate (nBuOAc=1): N/A

Freezing Point: N/A

pH (1% solution): 10.8

Reserve Alkalinity: 13.5 at pH 9.5

Solubility in Water: Nearly 100% at 20°C

Physical State: Solid at 20°C

SECTION X - STABILITY AND REACTIVITY

Possible Hazardous Reactions/Conditions: None known.

Conditions to Avoid: None known.

Materials to Avoid: None known.

Hazardous Decomposition Products: None known.

Other Recommendations: None.

SECTION XI - TOXICOLOGICAL INFORMATION

Cascade Power Tabs are expected to exhibit a generally low order of acute toxicity; estimated Acute Oral LD50 (rat): > 2 g/kg. Ingestion may result in tablet lodging causing moderate to severe upper gastrointestinal irritation, burning, discomfort or corrosion of tissue which may impede a person's ability to speak or swallow. It is expected to be emetic.

SECTION XII - ECOLOGICAL INFORMATION

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. Dry product may be landfilled if acceptable to local landfill.

SECTION XIV - TRANSPORT INFORMATION

The finished product is non-hazardous under DOT.

SECTION XV - ADDITIONAL REGULATORY INFORMATION

No components subject to California Prop. 65 All components are listed on US TSCA Inventory.

Procter & Gamble's importation of this product into Canada is in compliance with all CEPA NSN Regulations. This product has been classified with the Hazard Criteria of the Canadian Control Products Regulation (CPR) and this MSDS contains all information required by the Controlled Products Regulation.

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.