



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-5EHNK3
 Supersedes: FH/A/2002/JMJJ-5BMLG3

Issue Date: OCTOBER 11, 2002
 Issue Date: JULY 18, 2002

SECTION I - PRODUCT IDENTIFICATION			
Identity: Automatic Dishwashing Detergent			
Brands: CASCADE COMPLETE GEL (ALL VARIANTS)			
Hazard Rating:	Health:	2	4= EXTREME
	Flammability:	0	3= HIGH
	Reactivity:	1	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: Ingredients include phosphate salts and enzymes.					
Hazardous Ingredients as defined by OSHA, 29 CFR 1910.1200., and/or WHMIS under the HPA:					
Chemical Name	Common Name	CAS No.	Recommended Limits	Composition Range	LD50 and/or LC50
Potassium Hydroxide	Caustic Potash	1310-58-3	ACGIH TLV:2 mg/m ³	1-5%	1.2 g/kg (rats, oral)
Boric Acid	Boric Acid	10043-35-3	ACGIH TLV: 10 mg/m ³	1-5%	5.1 g/kg (rats, oral)
Proteolytic Enzyme	Proteolytic Enzymes	9014-01-1	ACGIH TLV: 0.00006 mg/m ³	<0.1%	> 5 g/kg (rats, oral)
Amylase	Amylase Enzymes	9000-90-2	N/K	<0.1%	> 5 g/kg (rats, oral)

SECTION III - HAZARDS IDENTIFICATION	
Health Hazards (Acute and Chronic):	
Ingestion:	May cause transient gastrointestinal irritation; May cause vomiting if swallowed.
Eye Contact:	Contact may cause mild irritation;
Skin:	Mildly irritating to the skin;
Inhalation:	None;
Signs and Symptoms of Exposure:	
Ingestion:	May cause vomiting if swallowed
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 poison control center or physician.
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: KEEP OUT OF REACH OF CHILDREN. Don't let young children use bottle or touch product in dishwasher. Close protective cap tightly after use. Not for hand dishwashing. Don't reuse bottle. In case of skin or eye contact, rinse with water. If swallowed or gets in mouth, rinse mouth, drink a glassful of water to dilute and call a Poison Control Center or physician.	

SECTION V - FIRE FIGHTING INFORMATION			
Flash Point:	200°F	Explosive Limits:	UEL N/K
Method Used:	PM Closed Cup		LEL N/K
Extinguishing Media: CO2, water and/or Dry Chemical			
Special Fire Fighting Procedures: None			
Unusual Fire Hazards: None Known			
Stability Unstable: <input type="checkbox"/>		Conditions to Avoid: None known;	
Stable: <input checked="" type="checkbox"/>			
Incompatibility (Materials to Avoid):			
Hazardous Decomposition/By Products:			
Hazardous Polymerization:		May Occur: <input type="checkbox"/>	
		Will Not Occur: <input checked="" type="checkbox"/>	
Conditions to Avoid: None known			

SECTION VI - ACCIDENTAL RELEASE MEASURES
<p>Personal Precautions: Prior to exposure, cover any exposed skin and eyes. Peel off and wash any clothing that becomes wet with the product.</p> <p>Environmental Precautions: DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH ALL FEDERAL, STATE/PROVINCIAL AND LOCAL REGULATIONS.</p> <p>Steps To Be Taken in Case Material is Released or Spilled:</p>

SECTION VII - HANDLING AND STORAGE
<p>Precautions To Be Taken in Handling and Storing: None</p> <p>Other Precautions: None</p>

SECTION VIII - EXPOSURE CONTROLS, PERSONAL PROTECTION
<p>This section only applies to the product when used in an industrial setting.</p>
<p>Respiratory Protection (Specify Type): None required with normal use.</p> <p>Ventilation: <i>Local Exhaust:</i> None required with normal use. <i>Special:</i> None. <i>Mechanical (General):</i> General dilution ventilation is acceptable. <i>Other:</i> None.</p> <p>Eye Protection: For splash protection use chemical goggles. Eye wash fountain is desirable.</p> <p>Protective Gloves: Protective gloves (rubber, neoprene) should be used for any direct contact.</p> <p>Other Protective Equipment: None.</p>

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES	
Boiling Point (°F): N.A.	Specific Gravity (H₂O=1): 1.30 (g/cc)
Vapor Pressure (mm Hg): N.A.	Percent Volatile by Volume (%): N.A.
Vapor Density (Air=1): N.A.	Evaporation Rate (nBuOAc=1): N.A.
Odor Threshold: N.A.	Freezing Point: N.A.
Coefficient of Water/Oil Distribution: N.A.	pH: 8.6 (1% solution)
Viscosity: 15,000 cPs (at 1s ⁻¹)	Reserve: N.A.
Scooped Density: N.A.	Solubility in Water: Miscible in water.
Appearance and Odor: Colored gel with speckles.	Physical State: Liquid/ gel

SECTION X - STABILITY AND REACTIVITY

Possible Hazardous Reactions/Conditions: None
Conditions to Avoid: None
Materials to Avoid: Acids
Hazardous Decomposition Products: None
Other Recommendations: None

SECTION XI - TOXICOLOGICAL INFORMATION

SECTION XII - ECOLOGICAL INFORMATION

SECTION XIII - DISPOSAL CONSIDERATIONS

Waste Disposal Method: DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH ALL FEDERAL, STATE PROVINCIAL AND LOCAL REGULATIONS.

SECTION XIV - TRANSPORT INFORMATION

The finished product is non-hazardous under DOT.

SECTION XV - ADDITIONAL REGULATORY INFORMATION

All ingredients are listed on the TSCA inventory.
All ingredients are CEPA approved for import to Canada by Procter & Gamble.
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the 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.