



MATERIAL SAFETY DATA SHEET

MSDS #: **FH/A/2006/DSDJ-6SNHQ6**
FH/A/2006/DSDJ-6SWSD5
Supersedes: **FH/A/2004/KPKS-63PRLR**

Issue Date: **August 29, 2006**
September 7, 2006
Issue Date: **August 18, 2004**

SECTION I - CHEMICAL PRODUCT

Identity: **Automatic Dishwashing Detergent** **Finished Product**
Brands: **CASCADE COMPLETE GEL (ALL VARIANTS)**

P&G Telephone Number: 1-800-765-5516
or call Local Poison Control Center or your physician.

SECTION II - COMPOSITION AND INGREDIENTS

Ingredients include phosphate salts and enzymes.

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>Composition</u> <u>Range</u>	<u>LD50/LC50</u>
Potassium Hydroxide	Caustic Potash	1310-58-3	< 0.1%	1.2 g/kg (rats, oral)
Nitric Acid	Nitric Acid	7697-37-2	< 0.1%	430 mg/kg (hamsters, oral)
Boric Acid	Boric Acid	10043-35-3	1-5%	5.1 g/kg (rats, oral)
Proteolytic Enzyme	Proteolytic Enzymes	9014-01-1	< 0.1%	> 5 g/kg (rats, oral)
Amylase	Amylase Enzymes	9000-90-2	< 0.1%	> 5 g/kg (rats, oral)

SECTION III - HAZARDS IDENTIFICATION

Potential Health Hazards (Acute and Chronic): (See Section 11 for more information)

Ingestion: May cause transient gastrointestinal irritation. May cause vomiting if swallowed.

Eye Contact: Contact may cause mild irritation.

Skin Contact: 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 Contact: May result in transient skin irritation (redness, swelling) upon prolonged contact with undiluted material.

Inhalation: None Known.

Medical Conditions Generally Known to be Aggravated by Exposure: None.

Potential Environmental Effects: (See Section 12 for more information)

SECTION IV – FIRST AID INFORMATION
<p>First Aid Procedures: Ingestion: Give milk or water and call a physician or poison control center. Eye Contact: Flush eyes thoroughly with water. Skin Contact: Rinse exposed area with water. Inhalation: Move exposed individual to fresh air. Note to Physician: (if applicable) Other: Consumer product package has the following precautionary 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.</p>

SECTION V - FIRE FIGHTING INFORMATION
<p>Flash Point (Method Used):): >200°F/ 93.33°C PM CC</p>
<p>Flammable Properties: Upper Flammable Limit: Lower Flammable Limit:</p>
<p>Explosive Limits: UEL: N/K LEL: N/K</p>
<p>Auto-ignition Temperature:</p>
<p>Hazardous Combustion Products:</p>
<p>Explosion Data (Sensitivity to Mechanical Impact): Explosion Data (Sensitivity to Static Discharge):</p>
<p>Extinguishing Media: Suitable: CO2, water and/or Dry Chemical Unsuitable:</p>
<p>Protection of Firefighters: Specific Hazards Arising from the Material: None. Protective Equipment and Precautions for Firefighters: None/</p>

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. Environmental Precautions: DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH ALL FEDERAL, STATE/PROVINCIAL AND LOCAL REGULATIONS. See Section XIII. Methods for Containment: Prevent spills from reaching a waterway. Sorbents may be used. Methods for Cleanup: Flush small or household quantities down acceptable sewer. Other Information: (if applicable)</p>

SECTION VII – HANDLING AND STORAGE
<p>Precautions To Be Taken in Handling: None. Precautions To Be Taken in Storage: None.</p>

SECTION VIII - EXPOSURE CONTROLS, PERSONAL PROTECTION**Exposure Guidelines:****Engineering Controls:****Personal Protective Equipment (PPE):**

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

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

Respiratory Protection: None required with normal use.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Appearance (color, physical form, shape): Colored gel with speckles.

Flash Point (Method Used): >200⁰F/ 93.33⁰C PM CC

Odor: Perfumed.

Reserve Alkalinity: N/A

Odor Threshold: N/A

Solubility in Water: Miscible in water.

Physical State: Liquid/Gel

Decomposition Temperature: N/A

Vapor Pressure (mm Hg): N/A

Evaporation Rate (nBuOAc=1): N/A

Vapor Density (Air=1): N/A

Specific Gravity/Density: 1.26 (g/cc)

Boiling Point: N/A

Melting/Freezing Point: N/A

Partition Coefficient (n-octanol/water): N/A

pH (1 % solution): 8.5

SECTION X - STABILITY AND REACTIVITY

Chemical Stability: Stable

Conditions to Avoid: None

Incompatible Materials: Acids

Hazardous Decomposition Products: None

Possibility of Hazardous Reactions: None

SECTION XI - TOXICOLOGICAL INFORMATION

Irritating to eye and skin after prolonged, direct contact. Cascade Complete Gel is expected to exhibit a generally low order of acute toxicity. It maybe irritatint to musous membrane and the gastrointestinal tract, but it is not known to be corrosive. Estimated Acute Oral LD50 (rat) > 2 g/kg.

SECTION XII - ECOLOGICAL INFORMATION

Cascade Complete Gel is intended for wide dispersive use and is compatible with down the drain disposal routes including septic tank systems and municpal wastewater treatment processes. 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 FEDERAL, STATE/PROVINCIAL AND LOCAL REGULATIONS.

Household Use: Small or household quantities may be disposed of in the sewer. Do not send liquids to landfill.

Industrial Setting: Do not send liquids to a landfill. Incinerate all product. Material is not RCRA regulated.

SECTION XIV - TRANSPORT INFORMATION

Ground Transport (DOT): Not regulated.
 Air Transport (IATA): Not regulated.
 Marine/Water Transport (IMDG): Not regulated.

SECTION XV - ADDITIONAL REGULATORY INFORMATION

All intentionally-added components of this product are listed on the US TSCA Inventory.
 This product is not subject to warning labeling under California Proposition 65.

The following chemical is listed on state right-to-know lists:

Sodium Tripolyphosphate (CAS# 7758-29-4) California, Connecticut, Illinois, Louisiana, Massachusetts, New Jersey, New York, Pennsylvania

Potassium Hydroxide (CAS# 1310-58-3)

California, Connecticut, Illinois, Louisiana, Massachusetts, Minnesota, New Jersey, New York, North Carolina, Pennsylvania, Rhode Island

Nitric Acid (CAS# 7697-37-2)

California, Connecticut, Illinois, Indiana, Kentucky, Louisiana, Massachusetts, Minnesota, New Jersey, New York, North Carolina, Pennsylvania, Rhode Island

1,2-Propanediol (CAS#57-55-6) Minnesota, Pennsylvania, Rhode Island

Boric Acid (CAS#1303-86-2) California, Illinois, Indiana, Kentucky, Massachusetts, Minnesota, New Jersey, New York, North Carolina, Pennsylvania, Rhode Island

Zinc Sulfate Granules (CAS#7733-02-0) California, Connecticut, Illinois, Louisiana, Massachusetts, Michigan, New Jersey, New York, Pennsylvania

SECTION XVI - OTHER INFORMATION

P&G Hazard Rating:	Health: 2	4=EXTREME
	Flammability: 0	3=HIGH
	Reactivity: 1	2=MODERATE
		1=SLIGHT
		0=NOT SIGNIFICANT

*N/A. - Not Applicable

*N/K. - Not Known

Data supplied is for use only in connection with occupational safety and health.

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