



MATERIAL SAFETY DATA SHEET

MSDS #: FH/A/2006/KRKS-6LDGV3

Issue Date: 9/12/06

Supersedes: FH/A/2004/BWBN-5WZPZL (S)

Issue Date: 3/22/04

SECTION I - CHEMICAL PRODUCT

Identity: **Automatic Dishwashing Detergent Gel**

Finished Product

Brands: **CASCADE PURE RINSE GEL**

P&G Telephone Number: 1-800-765-5516

or call Local Poison Control Center or your physician.

Emergency (24 hour) Telephone Number: CHEMTREC 1-800-424-9300

SECTION II - COMPOSITION AND INGREDIENTS

Ingredients/Chemical Name: 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.

This mixture, when tested as a whole, is considered an eye and skin irritant within the meaning of the OSHA Hazard Communication Standard.

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 Range</u>	<u>LD50/LC50</u>
Hypochlorous acid, sodium salt	Bleach	7681-52-9	1-5%	8.91 g/kg (rats, oral)
Sodium hydroxide	Caustic soda	1310-73-2	0.5 – 1.5%	500 mg/kg (10% solution, rats, oral)
Silicic Acid, Sodium salt	Sodium Silicate	1344-09-8	5 – 10%	~ 1 g/kg (rats, oral)

SECTION III - HAZARDS IDENTIFICATION

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

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 Contact: 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 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

First Aid Procedures:

Ingestion: Give water or milk to dilute. Call a physician. Do not induce emesis.

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: 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 (Method Used): > 200 °F / >93°C PM Closed Cup	
Flammable Properties: Upper Flammable Limit: Lower Flammable Limit:	
Explosive Limits:	UEL: N/K LEL: N/K
Auto-ignition Temperature:	
Hazardous Combustion Products: Dangerous hypochlorous acid and irritating chloramine gas are released.	
Explosion Data (Sensitivity to Mechanical Impact):	
Explosion Data (Sensitivity to Static Discharge):	
Extinguishing Media: Suitable: CO2, water and/or Dry Chemical Unsuitable:	
Protection of Firefighters: Specific Hazards Arising from the Material: Acids and ammonia. Contact with aluminum or iron-containing compounds may release hydrogen gas. Protective Equipment and Precautions for Firefighters: None.	

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.	
Methods for Containment & Cleanup: 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.	
Other Information: (if applicable)	

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

SECTION VIII - EXPOSURE CONTROLS, PERSONAL PROTECTION	
Exposure Guidelines:	
Engineering Controls:	
Personal Protective Equipment (PPE): Cover clothes as spills will bleach your clothing. 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): Creamy white or yellow thick, viscous gel.	Flash Point (Method Used): > 200 °F / >93°C PM Closed Cup
Odor: Products are perfumed.	Reserve Alkalinity: ~3.0
Vapor Pressure (mm Hg): N/K	Solubility in Water: Miscible with water. Contains small amounts of insoluble, colloidal size particles.
Vapor Density (Air=1): N/K	Decomposition Temperature:
Boiling Point: N/K	Evaporation Rate (nBuOAc=1):
Partition Coefficient (n-octanol/water): N/K	Specific Gravity (H₂O=1): 1.35 g/cc
Physical State: Liquid gel at 20°C.	Melting/Freezing Point: N/K
Evaporation Rate (nBuOAc=1): N/K	pH (1% solution): 11.0 (neat): ~12.6

SECTION X - STABILITY AND REACTIVITY

Chemical Stability: Stable

Conditions to Avoid: Acids and ammonia. Contact with aluminum or iron-containing compounds may release hydrogen gas.

Incompatible Materials: Acids, ammonia, aluminum and iron-containing compounds.

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

Possibility of Hazardous Reactions: See above.

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.

Household Use: Household waste may be disposed of down sewer

Industrial Setting: Hazardous waste treatment to reduce the pH is necessary prior to disposal. Do not landfill.

SECTION XIV - TRANSPORT INFORMATION

Ground Transport (DOT): This material is regulated by the US Department of Transportation. For finished packaged product transported by ground: **Consumer Commodity ORM-D.**

Air Transport (IATA): **DO NOT SHIP. Finished product packaging does not meet air transport requirements.**

Marine/Water Transport (IMDG): **Corrosive liquid, basic, inorganic, n.o.s. (sodium hypochlorite, sodium hydroxide), 8, UN3266, PG III, Ltd Qty.**

