

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

MATERIAL SAFETY DATA SHEET

MSDS #: FH/A/2003/ACAP-5QCHVJ (S) Issue Date: July 6, 2004
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SECTION I - PRODUCT IDENTIFICATION								
Identity:	Automatic Dishwashing Rinse Aid							
Brands:	ds: CASCADE CRYSTAL CLEAR RINSE AID							
Hazard Ra	ating:	Health:	1		4= EXTREME			
		Flammability:		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: Water spot prevention agents, processing aids, perfume and dye.							
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		
Ethyl Alcohol	Ethanol	64-17-5	1000ppm	3-7%	LD50 = 7.1 g/kg, oral, rats		
Zinc Chloride	Zinc Chloride	7646-85-7		3-7%	LD50, 350 mg/kg, oral, rat		

SECTION III - HAZARDS IDENTIFICATION

Health Hazards (Acute and Chronic):

Ingestion: May cause vomiting if swallowed.

Eye Contact: Contact may cause mild, transient irritation.

Skin: Prolonged/repeated contact may cause irritation.

Inhalation: Can cause mild respiratory irritation.

Signs and Symptoms of Exposure:

Ingestion: May cause vomiting if swallowed.

Eye Contact: Contact may cause moderate, transient irritation, including redness.

Skin: Contact may cause moderate, transient irritation, including dryness.

Inhalation: Repeated prolonged exposure may cause mild respiratory irritation.

SECTION IV - FIRST AID INFORMATION

Emergency and First Aid Procedures:

Ingestion: Give milk or water.

Eye Contact: Flush eyes thoroughly with water.

Skin: Rinse exposed area with water.

Inhalation: Get medical attention if irritation persists.

Other: Consumer product packages have a caution statement: "KEEP OUT OF REACH OF CHILDREN. In case of

skin or eye contact, rinse with water. If swallowed, drink a glassful of water to dilute."

SECTION V - FIRE FIGHTING INFORMATION								
Flash Point:	125 °F			Explosive Limits :	LEL:	N/A		
Method Used:	PM Closed Cup				UEL:	N/A		
Extinguishing Media: CO2, water, or dry chemical may be used.								
Special Fire Fig	hting Procedures	: None						
Unusual Fire H	azards: None Kno	own						
Stability	Unstable: 🗌			Conditions to Avoid:	None k	known.		
	Stable: 🖂							
Incompatibility	(Materials to Av	oid): None						
Hazardous Dec	omposition/By Pr	oducts: None						
Hazardous Poly	merization:	May Occur:		Conditions to Avoid:	None k	known.		
		Will Not Occur	: 🛛					

SECTION VI - ACCIDENTAL RELEASE MEASURES

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

Environmental Precautions: DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH ALL FEDERAL,

STATE/PROVINCIAL AND LOCAL REGULATIONS.

Steps To Be Taken in Case Material is Released or Spilled: Any undiluted waste from this product needs to be handled and treated as a RCRA Ignitable Hazardous Waste in accordance with all compliance guidelines. Collect amd place in suitable container and incineratre scrap, try to prevent product from reaching sewer. Solutions created in the course of use, may be able to be flushed down sewer, but first check with your local water treatment plant. Recycling is recommended for undiluted scrap product. Do not landfill.

SECTION VII - HANDLING AND STORAGE

Precautions To Be Taken in Handling and Storing: Store at room temperature.

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 consumer use. May be required for handling large quantities.

Special: None

Mechanical (General): General dilution ventilation is acceptable.

Other: None

Eve Protection: None required with normal use. If a splash is likely, chemical goggles may be needed.

Protective Gloves: None required with normal use. 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 Specific Gravity (H₂O=1): 1.03 Vapor Pressure (mm Hg): N/A Percent Volatile by Volume (%): Vapor Density (Air=1): N/A Evaporation Rate (nBuOAc=1):

Odor Threshold: N/A Freezing Point: 0 C
Coefficient of Water/Oil Distribution: pH (1% solution): 3.5

Viscosity: 35-85 cP@25C(Brookfield)

Reserve Acidity: 0.8 (to pH 4.0)

Scooped Density: N/A

Solubility in Water: Miscible in water

Appearance and Odor: Blue liquid with perfume Physical State: Liquid

SECTION X - STABILITY AND REACTIVITY

Possible Hazardous Reactions/Conditions: None

Conditions to Avoid: None Materials to Avoid: None

Hazardous Decomposition Products: None

Other Recommendations: None

SECTION XI - TOXICOLOGICAL INFORMATION

Oral Toxicity: LD50 (rats) > 5 ml/kg. Dermal Irritation: Not irritating to skin.

Occular Irritation: Not an eye irritant.

SECTION XII - ECOLOGICAL INFORMATION

Prevent large spills from reaching waterways.

SECTION XIII - DISPOSAL CONSIDERATIONS

Waste Disposal Method: Disposal is to be performed in compliance with Federal, State and Local regulations.

Households: Product is safe for disposal down the drain after use.

Industrial Setting: Any undiluted waste from this product needs to be handled and treated as a RCRA Ignitable Hazardous Waste in accordance with all compliance guidelines. Collect amd place in suitable container and incineratre scrap, try to prevent product from reaching sewer. Solutions created in the course of use, may be able to be flushed down sewer, but first check with your local water treatment plant. Recycling is recommended for undiluted scrap product. Do not landfill.

SECTION XIV - TRANSPORT INFORMATION

US Shipping Classification: **U.S. DOT/ IATA/ IMDG Classification**: Not regulated; aqueous solutions of ethanol containing <24% ethanol are not subject to regulation under these rules.

Canadian Shipping Classification: This product meets the requirements of the TDG Regulations TDG 1.33 Class 3, Flammable Liquids: General Exemptions and TDG 2.18(2) (a) and is not subject to the Dangerous Goods Regulations.

SECTION XV - ADDITIONAL REGULATORY INFORMATION

No components subject to California Prop. 65 All components are listed on US 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 Canadian Controlled 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.