Cascade Pure Rinse or Complete Powder MSDS 06 04 Page 1 of 4



Cascade Crystal Chear Plus Shine Shield Protege Echat

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

MATERIAL SAFETY DATA SHEET

MSDS #:

FH/E/2004/BWBN-5ZEJS4 (S)

Issue Date: 6/07/04

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

Issue Date: 4/13/04

SECTION I - PRODUCT IDENTIFICATION

Identity:

Automatic Dishwashing Detergent Powder

Brands:

CASCADE PURE RINSE OR COMPLETE POWDER

Hazard Rating:

Health:

4= EXTREME

Flammability:

3= HIGH

Reactivity:

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: Complexed sodium phosphates and sodium carbonate, oxygen bleaching system and enzymes, nonionic wetting agents, sodium silicate, sodium sulfate, perfume and dye.

Under normal consumer use, this product would not constitute a hazardous product under OSHA Hazard Communication. With increased industrial exposure this mixture, when tested as a whole, is considered an inhalation hazard 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:

Chemical Name	Common Name	CAS No.	Recommended Limits	Composition Range	LD50 and/or LC50
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	3-7%	>1.1 g/kg (rats, oral)
Silicic acid, sodium salt	Sodium silicate	1344-09-8	N/K	3-7%	~1.8 g/kg (rats, oral)
Amylase enzyme	Amylase	9000-90-2	N/K	\$0.1%	> 5 g/kg (rats, oral)
Subtilisin	Proteolytic enzyme	9014-01-1	ACGIH TLV: 0.00006 mg/m ³	₹0.1%	> 5 g/kg (rats, oral)

Cascade Pure Rinse or Complete Powder MSDS 06_04 (Continued) Page 2 of 4

	SECTION III - HAZARDS IDENTIFICATION			
Health Hazards	(Acute and Chronic):			
Ingestion:	May cause transient gastrointestinal irritation			
Eye Contact:	Contact may cause moderate irritation			
Skin:	Mildly irritating to the skin.			
Inhalation:	Can cause mild respiratory irritation.			
Signs and Sympt	oms of Exposure:			
Ingestion:	Ingestion of larger amounts leads to emesis.			
Eye Contact:	Stinging and burning of eyes can occur unless flushed immediately with water.			
Skin:	Mild irritation is possible with prolonged contact.			
Inhalation:	Dust irritation is possible.			

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:

Leave dusty area.

Other: Consumer product packages have a caution statement:

Front Panel: CAUTION: HARMFUL IF SWALLOWED. MAY IRRITATE EYES OR SKIN.

Side Panel: CAUTION: Do not get in eyes. Do not get on skin or clothing. KEEP OUT OF REACH OF CHILDREN. FIRST AID TREATMENT: Contains sodium carbonate, sodium silicate and enzymes. If swallowed, give a glassful of water or milk and call a Poison Control Center or doctor immediately. Do not induce vomiting. If in eyes, rinse with water for 15 minutes. If on skin, rinse well with water.

	S	SECTION V - FIRE F	IGHTING INFORM	ATION			
Flash Point:	N/A		Explosive Limits:	LEL:	N/A		
Method Used:	N/A			UEL:	N/A		
Extinguishing N	Media: N/K				•		
Special Fire Fighting Procedures: None.							
Unusual Fire Hazards: None known.							
Stability	Unstable: 🔲		Conditions to Avoid:	None k	nown,		
	Stable: 🛛						
Incompatibility (Materials to Avoid): None known.							
Hazardous Decomposition/By Products: None known.							
Hazardous Poly	merization:	May Occur:	Conditions to Avoid:	None k	nown.		
		Will Not Occur: 🛛					

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.

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: Keep product dry to maintain free-flowing granules.

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.

Local Exhaust: None required with normal use. Ventilation:

Special: None.

Mechanical (General): General dilution ventilation is acceptable.

Other: None.

Eye Protection: None required.

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

Other Protective Equipment: None required.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Specific Gravity (H₂O=1): ~0.94-1.03 g/cc Boiling Point (°F): N/K

Percent Volatile by Volume (%): ~60-65% Vapor Pressure (mm Hg): N/K

Vapor Density (Air=1): N/K Evaporation Rate (nBuOAc=1): N/K

Freezing Point: N/K Odor Threshold: N/K

pH (1% solution): ~11.0 Coefficient of Water/Oil Distribution: N/K

Reserve Alkalinity: 10.8 (to pH 9.5) Viscosity: N/K

Solubility in Water: Nearly 100% at 20°C. Scooped Density: N/K

Appearance and Odor: White granular agglomerate Physical State: Solid.

with blue speckles. Product is perfumed.

Cascade Pure Rinse or Complete Powder MSDS 06_04 (Continued) Page 4 of 4

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 Pure Rinse and Complete Powders are expected to exhibit a generally low order of acute toxicity. It may be irritating to mucous membranes and the gastrointestinal tract, but it is not known to be corrosive. It is expected to be emetic. Estimated Acute Oral LD50 (rat): > 2 g/kg

SECTION XII - ECOLOGICAL INFORMATION

This product is safe for septic tanks and would not pose an ecological threat unless high concentrations were released 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 waste can be landfilled if local restrictions allow.

SECTION XIV - TRANSPORT INFORMATION

The finished, packaged product is not hazardous under DOTA

SECTION XV - ADDITIONAL REGULATORY INFORMATION

All components are listed on the US TSCA Inventory.

No components of Cascade Pure Rinse or Complete Powder are subject to California Proposition 65.

Chemical Name

CAS#

CERCLA RQ(LBS)

Sodium Tripolyphosphate

7758-29-4

5000 lbs

Zinc Salts

Mixture

1000 lbs

EPCRA (SARA Title III) Section 313 Toxic Chemical: Zinc Salts 1.0% De Minimis Concentration

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

THE STATE OF THE S

**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.