



Procter & Gamble
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MATERIAL SAFETY DATA SHEET

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SECTION I - PRODUCT IDENTIFICATION

Identity: Automatic Dishwashing Detergent Powder

Brands: CASCADE PURE RINSE OR COMPLETE POWDER

Hazard Rating: 1	Health: 1	4= EXTREME
	Flammability: 0	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: 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	0.1-1.0%	> 5 g/kg (rats, oral)
Subtilisin	Proteolytic enzyme	9014-01-1	ACGIH TLV: 0.00006 mg/m ³	0.1-1.0%	> 5 g/kg (rats, oral)

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 Symptoms 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: "CAUTION: Harmful if swallowed. Skin and eye irritant. CAUTION: In case of skin or eye contact, flush with water. If swallowed, give a glassful of water or milk. Call a physician or poison control center. KEEP OUT OF REACH OF CHILDREN."

SECTION V - FIRE FIGHTING INFORMATION

- Flash Point:** N/A **Explosive Limits:** LEL: N/A
- Method Used:** N/A UEL: N/A
- Extinguishing Media:** N/K
- Special Fire Fighting Procedures:** None.
- Unusual Fire Hazards:** None known.
- Stability** Unstable: **Conditions to Avoid:** None known.
- Stable:
- Incompatibility (Materials to Avoid):** None known.
- Hazardous Decomposition/By Products:** None known.
- Hazardous Polymerization:** May Occur: **Conditions to Avoid:** None known.
- 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.

Ventilation: *Local Exhaust:* None required with normal use.

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

Boiling Point (°F): N/K

Specific Gravity (H₂O=1): ~0.94-1.03 g/cc

Vapor Pressure (mm Hg): N/K

Percent Volatile by Volume (%): ~60-65%

Vapor Density (Air=1): N/K

Evaporation Rate (nBuOAc=1): N/K

Odor Threshold: N/K

Freezing Point: N/K

Coefficient of Water/Oil Distribution: N/K

pH (1% solution): ~11.0

Viscosity: N/K

Reserve Alkalinity: 10.8

Scooped Density: N/K

Solubility in Water: Nearly 100% at 20°C.

Appearance and Odor: White granular agglomerate with blue speckles. Product is perfumed.

Physical State: Solid.

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. 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. Dry product waste can be landfilled if local restrictions allow.

SECTION XIV - TRANSPORT INFORMATION

The finished product is non-hazardous under DOT.

SECTION XV - ADDITIONAL REGULATORY INFORMATION

All components are listed on US TSCA Inventory. [REDACTED]

All ingredients are CEPA approved for import to Canada by Procter & Gamble. This product has been classified with Hazard Criteria of the Canadian Controlled Products Regulation (CPR) and this MSDS contains all information required by the Canadian 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.

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