



# MATERIAL SAFETY DATA SHEET

Supersedes: N/A

Issue Date: 2/01

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SECTION I - CHEMICAL PRODUCT		
Identity: <b>Powder Automatic Dishwashing Detergent</b>		
Brands: <b>Cascade Dishwasher Detergent (Professional Line)</b>		
Hazard Rating: 1	Health: 1	4=EXTREME
	Flammability: 1	3=HIGH
	Reactivity: 0	2= MODERATE
		1=SLIGHT
Emergency Telephone Number: 1-800-332-7787 or call Local Poison Control Center		

SECTION II - COMPOSITION AND INGREDIENTS					
Ingredients/Chemical Name: Water softeneing agents (complex sodium phosphates and sodium carbonate), cleaning and water spot prevention agents (nonionic surfactants and chlorine bleach), sodium silicate, sodium sulfate, suds control agent, colorant and perfume.					
Hazardous Ingredients as defined by OSHA, 29 CFR 1910.1200.					
<u>Chemical Name</u>	<u>Common Name</u>	<u>CAS No.</u>	<u>Recommended Limits</u>	<u>Composition Range</u>	<u>LD50/LC50</u>

SECTION III - HAZARDS IDENTIFICATION	
<b>Health Hazards (Acute and Chronic):</b>	
Inhalation:	May cause transient respiratory tract irritation if heavy or prolonged exposure to dust.
Ingestion:	May cause nausea, vomiting and/or diarrhea.
Eye Contact:	May cause moderate, transient irritation.
Skin:	May cause moderate, transient irritation, including dryness
<b>Signs and Symptoms of Exposure:</b>	
Ingestion:	May result in nausea, vomiting and/or diarrhea.
Eye Contact:	May cause stinging, tearing, vomiting, and/or diarrhea.
Skin:	Prolonged contact with concentrated material may be drying or transiently irritating to the skin.

SECTION IV - FIRST AID INFORMATION	
<b>Emergency and First Aid Procedures:</b>	
Ingestion:	Drink 1 or 2 two large glasses of water.
Eye Contact:	Flush thoroughly with large amounts of water for 15 minutes
Skin:	If prolonged contact occurs, rinse thoroughly with water. If spilled on clothing, change clothes, If symptoms persist or recur, seek medical attention.
<b>Other:.</b>	

SECTION V - FIRE FIGHTING INFORMATION		
<b>Flash Point (Method Used):</b> 105-130°F Pinsky - Martens (cc)	<b>Explosive Limits:</b> <i>LEL:</i> N/A	<i>UEL:</i> N/A
<b>Extinguishing Media:</b> CO <sub>2</sub> , water or dry chemical		
<b>Special Fire Fighting Procedures:</b> None. Although this product has a flash point below 200°F (closed cup), it is an aqueous solution containing ethyl alcohol, which does not sustain combustion.		
<b>Unusual Fire Hazards :</b> None		
<b>Stability Unstable:</b>	<i>Conditions to Avoid:</i> None known	
<i>Stable:</i> X		
<b>Incompatibility (Materials to Avoid):</b> None known		
<b>Hazardous Decomposition/By Products:</b> None known		
<b>Hazardous Polymerization:</b>	<i>May Occur:</i>	<i>Conditions to Avoid:</i> None known
	<i>Will Not Occur:</i> X	

SECTION VI - ACCIDENTAL RELEASE MEASURES
<b>Personal Precautions:</b> None
<b>Environmental Precautions:</b> DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS. Do not landfill. Small quantities may be disposed of via sewer. Recycling is recommended for undiluted scrap product.
<b>Steps To Be Taken in Case Material is Released or Spilled:</b> Prevent spills from reaching a waterway. Sorbents may be used. Read "Waste Disposal Method" below for further information.

SECTION VII - HANDLING AND STORAGE
<b>Precautions To Be Taken in Handling and Storing:</b> No unusual precautions necessary.
<b>Other Precautions:</b> Non known.

SECTION VIII - EXPOSURE CONTROLS, PERSONAL PROTECTION	
<b>Respiratory Protection (Specify Type):</b> None required with normal use.	
<b>Ventilation</b>	<i>Local Exhaust:</i> None required with normal use. <span style="float: right;"><i>Special:</i> None</span>
	<i>Mechanical (General):</i> Acceptable. <span style="float: right;"><i>Other:</i> None</span>
<b>Eye Protection:</b> None required with normal use. If splash is likely, goggles may be needed.	
<b>Protective Gloves:</b> None required with normal use. Protective gloves should be used for prolonged contact with undiluted product.	
<b>Other Protective Equipment:</b> None required with normal use.	

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES	
<b>Boiling Point ° F:</b> N.A.	<b>Specific Gravity (H<sub>2</sub>O=1):</b> 0.92 g/cc (bulk density)
<b>Vapor Pressure (mm Hg):</b> N/A	<b>Percent Volatile by Volume (%):</b> N.A.
<b>Vapor Density (Air=1):</b> N/A	<b>Evaporation Rate (nBuOAc=1):</b> Unknown
<b>Odor Threshold:</b> N/A	<b>Freezing Point:</b> N.A.
<b>Coefficient of Water/Oil Distribution:</b> N/A	<b>pH (1% solution):</b> 10.6
<b>Scooped Density:</b> N/A	<b>Solubility in Water:</b> Appreciable
<b>Appearance and Odor:</b> Light blue or white granular powder with perfume	<b>Reserve Alkalinity:</b> N/A

SECTION X - STABILITY AND REACTIVITY
<b>Possible Hazardous Reactions/Conditions:</b> None known
<b>Conditions to Avoid:</b> None
<b>Materials to Avoid:</b> None
<b>Hazardous Decomposition Products:</b> None known
<b>Other Recommendations:</b> None

SECTION XI - TOXICOLOGICAL INFORMATION
LD50 (rats oral): approximately 12 mL/kg
ED50: approximately 2.3 mL/kg
Liquid hand dishwashing detergents have a relatively low order of toxicity. They may be irritating, but they are not expected to be corrosive. They are expected to be emetic.

SECTION XII - ECOLOGICAL INFORMATION
All surfactants are readily biodegradable. This product is safe for septic tanks.

### SECTION XIII - DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** Do not landfill. Small quantities, including solutions of diluted detergents, may be disposed of via sewer or in the trash. Recycling is recommended for undiluted scrap product. **DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.**

### SECTION XIV - TRANSPORT INFORMATION

**DOT Classification:** Not DOT regulated.

### SECTION XV - ADDITIONAL REGULATORY INFORMATION

All components are listed on the US TSCA Inventory. No components are affected by Significant New Use Rules (SNURs) under TSCA §5.

No components of Cascade are subject to California Proposition 65.

All ingredients are CEPA approved for import to Canada by Procter & Gamble. This product has been classified with Hazard Criteria of the Canadian Control 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.

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.