



MATERIAL SAFETY DATA SHEET

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SECTION I - CHEMICAL PRODUCT

Identity: **Automatic Dishwashing Detergent Powder**
Brands: **CASCADE (Professional Line)**

P&G Telephone Number: 1-800-332-7787
or call Local Poison Control Center or your physician.

SECTION II - COMPOSITION AND INGREDIENTS

Complexed sodium phosphates and sodium carbonate, chlorine bleaching system, nonionic wetting agents, sodium silicate, sodium sulfate and perfume.

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>
Sodium carbonate	Soda ash	497-19-8	30-60%	1.9 g/kg (rats, oral)
Dichloroisocyanuric Acid, Sodium Salt	Sodium DCC	2893-78-9	0.5-1.5%	735 mg/kg (rats, oral)
Silicic acid, sodium salt	Sodium silicate	1344-09-8	5-10%	~1.8 g/kg (rats, oral)

SECTION III - HAZARDS IDENTIFICATION
<p>Potential Health Hazards (Acute and Chronic): (See Section 11 for more information)</p> <p>Ingestion: May cause transient gastrointestinal irritation.</p> <p>Eye Contact: Contact may cause mild irritation.</p> <p>Skin Contact: Mildly irritating to skin.</p> <p>Inhalation: Can cause mild respiratory irritation.</p> <p>Signs and Symptoms of Exposure:</p> <p>Ingestion: Ingestion of larger amounts leads to emesis.</p> <p>Eye Contact: Stinging and burning of eyes can occur unless flushed immediately with water.</p> <p>Skin Contact: Mild irritation is possible with prolonged contact.</p> <p>Inhalation: Dust irritation is possible.</p> <p>Medical Conditions Generally Known to be Aggravated by Exposure: None known.</p> <p>Potential Environmental Effects: (See Section 12 for more information)</p>

SECTION IV – FIRST AID INFORMATION
<p>First Aid Procedures:</p> <p>Ingestion: If swallowed do not induce vomiting. Give a glassful of water or milk and call a poison control center immediately.</p> <p>Eye Contact: Flush eyes with water for 15 minutes.</p> <p>Skin Contact: Rinse exposed area with water.</p> <p>Inhalation: Leave dusty area.</p> <p>Note to Physician: (if applicable)</p> <p>Other: Consumer product package has the following precautionary statement:</p> <p>Front Panel: CAUTION: EYE IRRITANT. HARMFUL IF SWALLOWED.</p> <p>Side Panel: EYE IRRITANT. HARMFUL IF SWALLOWED. If swallowed drink a glassful of water or milk. May cause mild to moderate eye irritation. If eye contact occurs, flush with water for 15 minutes. If irritation persists, seek medical attention.</p>

SECTION V - FIRE FIGHTING INFORMATION
<p>Flash Point (Method Used): N/A</p>
<p>Extinguishing Media:</p> <p>Suitable: CO2, water or dry chemical may be used.</p> <p>Unsuitable:</p>
<p>Protection of Firefighters:</p> <p>Specific Hazards Arising from the Material: Not known.</p> <p>Protective Equipment and Precautions for Firefighters: Normal fire-fighting gear.</p>

SECTION VI - ACCIDENTAL RELEASE MEASURES
<p>Personal Precautions: Recommendation is to wear gloves for handling/cleanup, and dust masks if considerable dust is airborne.</p> <p>Environmental Precautions: DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH ALL FEDERAL, STATE/PROVINCIAL AND LOCAL REGULATIONS.</p> <p>Methods for Containment:</p> <p>Methods for Cleanup: Minimize dust levels while collecting product (see "Inhalation" health effects). Dispose of according to local regulations.</p> <p>Other Information: (if applicable)</p>

SECTION VII – HANDLING AND STORAGE
<p>Precautions To Be Taken in Handling: Keep product dry to maintain free-flowing granules.</p> <p>Precautions To Be Taken in Storage: Store in a cool, dry ventilated area. Keep product dry.</p>

SECTION VIII - EXPOSURE CONTROLS, PERSONAL PROTECTION
<p>Exposure Guidelines: N/A</p> <p>Engineering Controls: N/A</p> <p>Personal Protective Equipment (PPE): Eye/Face Protection: None required. Skin Protection: Protective gloves (rubber, neoprene) should be used for prolonged direct contact. Respiratory Protection: None required with normal use. Recommendation is to wear a dust mask for handling/cleanup.</p>

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES	
<p>Appearance (color, physical form, shape): White granular agglomerate.</p> <p>Odor: Product is perfumed.</p> <p>Odor Threshold: N/A</p> <p>Physical State: solid</p> <p>Vapor Pressure (mm Hg): N/A</p> <p>Vapor Density (Air=1): N/A</p> <p>Boiling Point: N/A</p> <p>Partition Coefficient (n-octanol/water): N/K</p>	<p>Flash Point (Method Used): N/A</p> <p>Reserve Alkalinity: 11 (to pH 9.5)</p> <p>Solubility in Water: Nearly 100% at 20°C.</p> <p>Decomposition Temperature: N/K</p> <p>Evaporation Rate (nBuOAc=1): N/K</p> <p>Specific Gravity/Density: N/K</p> <p>Melting/Freezing Point: N/K</p> <p>pH (1% solution): ~11.0</p>

SECTION X - STABILITY AND REACTIVITY
<p>Chemical Stability: Stable</p> <p>Conditions to Avoid: None known.</p> <p>Incompatible Materials: None known.</p> <p>Hazardous Decomposition Products: None known.</p> <p>Possibility of Hazardous Reactions: None known.</p>

