



I - PRODUCT IDENTIFICATION AND USE				MSDS ID: 57295
<b>PRODUCT NAME: SUMA ADVANTAGE P7.1</b>				
<b>USE:</b> Machine dish detergent				
<b>SUPPLIER:</b> JohnsonDiversey Canada, Inc. 2401 Bristol Circle Oakville Ontario, L6H 6P1, Canada			<b>EMERGENCY PHONE:</b>  <b>1-800-668-7171</b>	
<b>WHMIS CLASSIFICATION:</b> E <b>CHEMICAL FAMILY:</b> caustic alkali			<b>TRADE NAME / SYNONYMS:</b> not applicable <b>CHEMICAL NAME:</b> not applicable	
II - HAZARDOUS INGREDIENTS				
HAZARDOUS INGREDIENT	% w/w	CAS #	LD50 / LC50	Route / Species
Sodium hydroxide	30-60	001310-73-2	LDLo 500 mg/kg	oral/rab
Tetrapotassium pyrophosphate	10-30	007320-34-5	LD50 2980 mg/kg	oral/rat
III - HANDLING AND DISPOSAL PROCEDURES				
<b>PERSONAL PROTECTIVE EQUIPMENT:</b>				
<b>Gloves:</b> Natural Rubber, Neoprene, Nitrile		<b>Eye:</b> safety goggles		<b>Footwear:</b> as required
<b>Respiratory:</b> Not normally required.			<b>Other:</b> Rubber apron as required	
<b>SPECIAL HANDLING PROCEDURES AND EQUIPMENT:</b> Avoid eye and skin contact. If mists are generated, use NIOSH approved mask.				
<b>VENTILATION REQUIREMENTS:</b> General ventilation.				
<b>INCOMPATIBILITY (Material to Avoid):</b> Acids, aluminum and other soft metals.				
<b>SPILL PROCEDURES:</b> Sweep or scoop up material for disposal. Wash spill area with large volumes of water.				
<b>WASTE DISPOSAL:</b> Dispose according to municipal, provincial, and federal regulations.				
<b>STORAGE / SHIPPING REQUIREMENT:</b> Store in a cool dry area in a closed container. Avoid freezing.				UN1824
IV - PHYSICAL PROPERTIES				
<b>APPEARANCE / ODOUR:</b> White creamy, viscous liquid				
<b>S.G. / BULK DENSITY(g/cc):</b> 1.62		<b>pH:</b> (1% solution) 12.5		
<b>VAPOUR PRESSURE (mmHg):</b> not applicable		<b>VAPOUR DENSITY (air=1):</b> not applicable		
<b>ODOUR THRESHOLD:</b> not applicable		<b>BOILING POINT:</b> approx. 100		
<b>FREEZING POINT:</b> not available		<b>PERCENT VOLATILE:</b> 36 %		
<b>SOLUBILITY IN WATER:</b> soluble		<b>EVAPORATION RATE (water=1):</b> 1		
V - TOXICOLOGICAL PROPERTIES				
<b>EFFECTS OF ACUTE EXPOSURE TO MATERIAL:</b>				
<b>EYES:</b> Corrosive. May cause severe irritation. May cause permanent damage if not treated promptly.				
<b>SKIN:</b> Corrosive. May cause severe irritation. May cause temporary or permanent damage if not treated promptly.				
<b>INGESTION:</b> Corrosive. May cause severe irritation of the digestive tract. May cause temporary or permanent damage if not treated promptly.				
<b>INHALATION:</b> Corrosive. Inhalation of spray or mist may cause severe respiratory irritation.				
<b>LD50 (calculated):</b> 1227 mg/kg			<b>LC50 (calculated):</b> Not applicable	

**OTHER TOXIC EFFECTS:** TLV - TWA (Sodium hydroxide): 2 mg/m<sup>3</sup>

**EFFECTS OF CHRONIC EXPOSURE TO MATERIAL:** none known

### VI - FIRST AID MEASURES

**EYES:** Flush eyes with plenty of water for at least 15 minutes. Hold eyelids open while rinsing. Contact a physician immediately

**SKIN:** Flush affected area thoroughly with water. If irritation develops, contact a physician.

**INGESTION:** Drink large volumes of water. Never give anything by mouth to an unconscious patient. Do not induce vomiting. Contact a physician immediately.

**INHALATION:** Remove patient to fresh air. Get medical attention for any breathing difficulty.

### VII - FIRE AND EXPLOSION DATA

**FLAMMABLE:** No

**FLASH POINT, °C:** not applicable      **AUTO IGNITION TEMPERATURE, °C:** N/Ap

**EXTINGUISHING MEDIA:** Water [x]    Dry Chemical [x]    Carbon Dioxide [x]    Foam [x]    Other [ ]

**SPECIAL FIRE FIGHTING PROCEDURES:** Wear self-contained breathing apparatus.

**HAZARDOUS COMBUSTION PRODUCTS:** Oxides of carbon.

**EXPLOSIVE SENSITIVITY TO:** not applicable

### VIII - REACTIVITY DATA

**STABILITY:** Stable [x]    Unstable [ ]

**CONDITIONS TO AVOID:** Avoid freezing

**INCOMPATIBILITY (Material to Avoid) :** Acids, aluminum and other soft metals.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Heat released on contact with acids. Contact with aluminum or other soft metals generated hydrogen gas

**REACTIVITY:** not dangerously reactive.

### IX - MSDS PREPARATION

**SOURCES USED:** RTECS, ChemInfo

**PREPARED BY:** JohnsonDiversey Canada, Inc.  
Regulatory Department  
Institutional Division  
Phone (905) 829-1200

**PREPARATION DATE:** March 10, 2006

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