



I - PRODUCT IDENTIFICATION AND USE				MSDS ID: 57236
<b>PRODUCT NAME:</b> SUMA CALC D5				
<b>USE:</b> Descaler				
<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> D1A E <b>CHEMICAL FAMILY:</b> mineral acid		<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
Nitric acid	10-30	007697-37-2	LC50 49 ppm/4H	inh/rat
Phosphoric acid	15-40	007664-38-2	LD50 1530 mg/kg	oral/rat
III - HANDLING AND DISPOSAL PROCEDURES				
<b>PERSONAL PROTECTIVE EQUIPMENT:</b>				
<b>Gloves:</b> Neoprene or PVC		<b>Eye:</b> Safety goggles		<b>Footwear:</b> As required
<b>Respiratory:</b> If mists are generated, use NIOSH approved mask		<b>Other:</b> Rubber apron		
<b>SPECIAL HANDLING PROCEDURES AND EQUIPMENT:</b> Avoid eye and skin contact. Do not breathe mist, spray or vapours.				
<b>VENTILATION REQUIREMENTS:</b> Local exhaust ventilation.				
<b>INCOMPATIBILITY (Material to Avoid):</b> Alkaline, chlorinated materials.				
<b>SPILL PROCEDURES:</b> Contain the spill. Do not allow the spilled product to go to drain. Neutralize with sodium bicarbonate, sodium carbonate or lime. Mop up or soak up with absorbent clay 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. UN3264				
IV - PHYSICAL PROPERTIES				
<b>APPEARANCE / ODOUR:</b> Clear, red liquid				
<b>S.G. / BULK DENSITY(g/cc):</b> 1.26		<b>pH:</b> (concentrate): < 1.0		
<b>VAPOUR PRESSURE (mmHg):</b> not available		<b>VAPOUR DENSITY (air=1):</b> not available		
<b>ODOUR THRESHOLD:</b> not available		<b>BOILING POINT:</b> 100°C		
<b>FREEZING POINT:</b> not available		<b>PERCENT VOLATILE:</b> 60%		
<b>SOLUBILITY IN WATER:</b> soluble		<b>EVAPORATION RATE (water=1):</b> approx. 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> not available		<b>LC50 (calculated):</b> 49 ppm/4 hr.		

**OTHER TOXIC EFFECTS:** Breathing vapours may cause delayed lung injury.  
TLV (nitric acid) - TWA 2 ppm, - STEL 4 ppm; TLV (phosphoric acid) - TWA 1 mg/m3, - STEL 3 mg/m3

**EFFECTS OF CHRONIC EXPOSURE TO MATERIAL:** not available

### 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:** not applicable.

**EXPLOSIVE SENSITIVITY TO:** not applicable

### VIII - REACTIVITY DATA

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

**CONDITIONS TO AVOID:** Contact with soft metals.

**INCOMPATIBILITY (Material to Avoid) :** Alkaline and chlorinated materials. Aluminium, brass, copper, iron, mild steel. Organic materials.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Contact with chlorinated materials will release chlorine gas. Contact with alkali will generate heat. Contact with soft metals forms flammable hydrogen gas. Contact with organic materials will generate heat.

**REACTIVITY:** not dangerously reactive

### IX - MSDS PREPARATION

**SOURCES USED:** RTECS

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

**PREPARATION DATE:** April 15, 2003

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