



I - PRODUCT IDENTIFICATION AND USE		MSDS ID: 1229		
<b>PRODUCT NAME:</b> SUMA BIODRAIN				
<b>USE:</b> Biological Drain Line Treatment				
<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> D2B	<b>TRADE NAME / SYNONYMS:</b> not applicable			
<b>CHEMICAL FAMILY:</b> Biological cultures	<b>CHEMICAL NAME:</b> not applicable			
II - HAZARDOUS INGREDIENTS				
HAZARDOUS INGREDIENT	% w/w	CAS #	LD50 / LC50	Route / Species
Lipase	<1	009001-62-1	not available	
Protease	<1	009014-01-1	not available	
III - HANDLING AND DISPOSAL PROCEDURES				
<b>PERSONAL PROTECTIVE EQUIPMENT:</b>				
<b>Gloves:</b> natural rubber, neoprene or nitrile		<b>Eye:</b> safety glasses		<b>Footwear:</b> not required
<b>Respiratory:</b> If mists are generated, use NIOSH approved mask.		<b>Other:</b> not required		
<b>SPECIAL HANDLING PROCEDURES AND EQUIPMENT:</b> Avoid eye and skin contact.				
<b>VENTILATION REQUIREMENTS:</b> General ventilation				
<b>INCOMPATIBILITY (Material to Avoid):</b> Strong acids, alkalis or biocides may inactivate biological cultures.				
<b>SPILL PROCEDURES:</b> Small spills may be flushed down the drain. Large spills, if uncontaminated, may be returned to container.				
<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. Do not store above 40°C. Do not store below 5 °C.				
IV - PHYSICAL PROPERTIES				
<b>APPEARANCE / ODOUR:</b> Green liquid, pleasant scent				
<b>S.G. / BULK DENSITY(g/cc):</b> 1.0		<b>pH:</b> (concentrate) 5.0		
<b>VAPOUR PRESSURE (mmHg):</b> equiv to water		<b>VAPOUR DENSITY (air=1):</b> equiv.to water		
<b>ODOUR THRESHOLD:</b> not available		<b>BOILING POINT:</b> approx. 100°C		
<b>FREEZING POINT:</b> approx. 0°C		<b>PERCENT VOLATILE:</b> 95%		
<b>SOLUBILITY IN WATER:</b> soluble		<b>EVAPORATION RATE (water=1):</b> not available		
V - TOXICOLOGICAL PROPERTIES				
<b>EFFECTS OF ACUTE EXPOSURE TO MATERIAL:</b>				
<b>EYES:</b> May cause severe irritation.				
<b>SKIN:</b> May cause irritation.				
<b>INGESTION:</b> May cause irritation of the digestive tract.				
<b>INHALATION:</b> Breathing mist or spray may cause respiratory irritation.				
<b>LD50 (calculated):</b> not available		<b>LC50 (calculated):</b> not available		

**OTHER TOXIC EFFECTS:** TLV (Protease) 0.00006 mg/m3

**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:** Wash affected area thoroughly with soap and water. If irritation develops, contact a physician.  
**INGESTION:** Drink large volumes of water. Never give anything by mouth to an unconscious patient. 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:** not required

**HAZARDOUS COMBUSTION PRODUCTS:** Oxides of carbon, nitrogen, sulphur.

**EXPLOSIVE SENSITIVITY TO:** not applicable

### VIII - REACTIVITY DATA

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

**CONDITIONS TO AVOID:** not applicable

**INCOMPATIBILITY (Material to Avoid) :** Strong acids, alkalis or biocides may inactivate biological cultures.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Sulphur dioxide and hydrogen sulphide

**REACTIVITY:** not dangerously reactive

### IX - MSDS PREPARATION

**SOURCES USED:** RTECS, Supplier's MSDS

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

**PREPARATION DATE:** April 15, 2003

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