



DiverseyLever

**MATERIAL SAFETY  
DATA SHEET**



100-0081

**I - PRODUCT IDENTIFICATION AND USE**

<b>PRODUCT NAME:</b> SUMA BIODRAIN	
<b>USE:</b> Biological Drain Line Treatment	
<b>SUPPLIER:</b> DiverseyLever Canada division of U L Canada Inc. 2645 Royal Windsor Drive Mississauga Ontario, L5J 1L1, Canada	<b>EMERGENCY PHONE:</b>  <b>(905) 822-3511</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 - HANDLING AND DISPOSAL PROCEDURES**

<b>PERSONAL PROTECTIVE EQUIPMENT</b>		
<b>Gloves:</b> impermeable gloves	<b>Eye:</b> safety glasses	<b>Footwear:</b> not required
<b>Respiratory:</b> not required	<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 PROCEDURE:</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.		

**III - PHYSICAL PROPERTIES**

<b>APPEARANCE/ODOUR:</b> Green liquid, pleasant scent	
<b>S.G./BULK DENSITY (g/cc):</b> 1.0	<b>pH:</b> (concentrate) 4.0 - 6.0
<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

**IV - 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
<b>EFFECTS OF CHRONIC EXPOSURE TO MATERIAL:</b> none known	
<b>OTHER TOXIC EFFECTS:</b> none known	

### V - FIRST AID MEASURES

<b>EYES:</b>	Flush eyes with plenty of water for at least 15 minutes. Hold eyelids open while rinsing. Contact a physician immediately.
<b>SKIN:</b>	Wash affected area thoroughly with soap and water. If irritation develops, contact a physician.
<b>INGESTION:</b>	Drink large volumes of water or milk. Never give anything by mouth to an unconscious patient. Contact a physician immediately.
<b>INHALATION:</b>	Remove patient to fresh air. Get medical attention for any breathing difficulty.

### VI - 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	

### VII - FIRE AND EXPLOSION DATA

<b>FLAMMABLE:</b> No				
<b>FLASH POINT, °C:</b> not applicable			<b>AUTO IGNITION TEMPERATURE, °C:</b> N/Ap.	
<b>EXTINGUISHING MEDIA:</b> Water [x]    Dry Chemical [x]    Carbon Dioxide [x]    Foam [x]    Other [ ]				
<b>SPECIAL FIRE FIGHTING PROCEDURES:</b> not required				
<b>HAZARDOUS COMBUSTION PRODUCTS:</b> not applicable				
<b>EXPLOSIVE SENSITIVITY TO:</b> not applicable				

### VIII - REACTIVITY DATA

<b>STABILITY:</b> Stable [x]                    Unstable [ ]	
<b>CONDITIONS TO AVOID:</b> not applicable	
<b>INCOMPATIBILITY (Material to Avoid):</b> Strong acids, alkalis or biocides may inactivate biological cultures.	
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b> Sulphur dioxide and hydrogen sulphide	
<b>REACTIVITY:</b> not dangerously reactive	

### IX - MSDS PREPARATION

<b>SOURCES USED:</b> RTECS, Supplier's MSDS	<b>PREPARED BY:</b> DiverseyLever Canada Research and Development Department Institutional Division Phone (905) 822-3511
<b>PREPARATION DATE:</b> April 15, 1997	

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