



I - PRODUCT IDENTIFICATION AND USE

MSDS ID: 11000

PRODUCT NAME: DUZYME 2**USE:** Powdered blend of bacteria and nutrients**SUPPLIER:**JohnsonDiversey Canada, Inc.
2401 Bristol Circle
Oakville Ontario, L6H 6P1, Canada**EMERGENCY PHONE:****1-800-668-7171****WHMIS CLASSIFICATION:** D2B**CHEMICAL FAMILY:** Enzyme**TRADE NAME / SYNONYMS:** not applicable**CHEMICAL NAME:** not applicable

II - HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENT	% w/w	CAS #	LD50 / LC50	Route / Species
Viable bacteria on wheat-bran base	7-13	116469-86-4	N/Av	
Alcohol ethoxylate	3-7	063526-94-3	LD50 2500 mg/kg	oral/rat
Sodium bicarbonate	40-70	000144-55-8	LD50 4220 mg/kg	oral/rat
Sodium nitrate	10-30	007631-99-4	LD50 3236 mg/kg	oral/rat

III - HANDLING AND DISPOSAL PROCEDURES

PERSONAL PROTECTIVE EQUIPMENT:**Gloves:** Natural Rubber, Neoprene, Nitrile**Eye:** safety glasses**Footwear:** not required**Respiratory:** NIOSH approved dust mask as required.**Other:** not required**SPECIAL HANDLING PROCEDURES AND EQUIPMENT:** Avoid eye and skin contact.**VENTILATION REQUIREMENTS:** General ventilation**INCOMPATIBILITY (Material to Avoid):** Strong acids, alkalis or biocides may inactivate biological cultures.**SPILL PROCEDURES:** Small spills may be flushed down the drain. Large spills, if uncontaminated, may be returned to container.**WASTE DISPOSAL:** Dispose according to municipal, provincial, and federal regulations.**STORAGE / SHIPPING REQUIREMENT:** 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

APPEARANCE / ODOUR: Free flowing tan powder**S.G. / BULK DENSITY(g/cc):** 0.66-0.77**pH:** (concentrate): 7.5**VAPOUR PRESSURE (mmHg):** not applicable**VAPOUR DENSITY (air=1):** not applicable**ODOUR THRESHOLD:** not available**BOILING POINT:** not applicable**FREEZING POINT:** not applicable**PERCENT VOLATILE:** not applicable**SOLUBILITY IN WATER:** dispersable**EVAPORATION RATE (water=1):** not applicable

V - TOXICOLOGICAL PROPERTIES

EFFECTS OF ACUTE EXPOSURE TO MATERIAL:**EYES:** May cause irritation.**SKIN:** May cause irritation**INGESTION:** May cause irritation of the digestive tract. May cause nausea and diarrhea.**INHALATION:** Breathing dust may cause respiratory irritation.

LD50 (calculated): 2500 mg/kg		LC50 (calculated): not available	
OTHER TOXIC EFFECTS: none known			
EFFECTS OF CHRONIC EXPOSURE TO MATERIAL:		Repeated or prolonged exposure may cause respiratory sensitization and allergic response in hypersensitive individuals.	
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: Wear self-contained breathing apparatus			
HAZARDOUS COMBUSTION PRODUCTS: Oxides of carbon, nitrogen, sulphur.			
EXPLOSIVE SENSITIVITY TO: not applicable			
VIII - REACTIVITY DATA			
STABILITY: Stable [x] Unstable []			
CONDITIONS TO AVOID: High temperature; keep from freezing.			
INCOMPATIBILITY (Material to Avoid) : Strong acids, alkalis			
HAZARDOUS DECOMPOSITION PRODUCTS: Strong acids and alkalis may inactive biological cultures.			
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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