



I - PRODUCT IDENTIFICATION AND USE

MSDS ID: 4737

PRODUCT NAME: LIQUID ENZYME BOOSTER 2DL**USE:** Liquid Enzyme Laundry Detergent Booster**SUPPLIER:**JohnsonDiversey Canada, Inc.
2401 Bristol Circle
Oakville Ontario, L6H 6P1, Canada**EMERGENCY PHONE:****1-800-668-7171****WHMIS CLASSIFICATION:** D2B**CHEMICAL FAMILY:** Surfactant/Enzyme**TRADE NAME / SYNONYMS:** not applicable**CHEMICAL NAME:** not applicable

II - HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENT	% w/w	CAS #	LD50 / LC50	Route / Species
Protease	3-6	009073-77-2	not available	
Linear alcohol ethoxylate	50-90	068131-39-5	LD50 1000 mg/kg	oral/rat
Silica Amorphous Fumed	3-6	112945-52-5	LD50 3160 mg/kg	oral/rat

III - HANDLING AND DISPOSAL PROCEDURES

PERSONAL PROTECTIVE EQUIPMENT:**Gloves:** natural rubber, neoprene or nitrile**Eye:** safety glasses**Footwear:** not required**Respiratory:** If mists are generated, use NIOSH approved mask.**Other:** not required**SPECIAL HANDLING PROCEDURES AND EQUIPMENT:** Avoid eye and skin contact.**VENTILATION REQUIREMENTS:** general ventilation**INCOMPATIBILITY (Material to Avoid):** Strong oxidizers**SPILL PROCEDURES:** Contain the spill. Do not allow the spilled product to go to drain. Mop up or soak up with absorbent clay for disposal. Wash spill area with large volumes of water.**WASTE DISPOSAL:** Dispose according to municipal, provincial, and federal regulations.**STORAGE / SHIPPING REQUIREMENT:** Avoid freezing. Store in a cool dry area in a closed container. Do not store above 30°C.

IV - PHYSICAL PROPERTIES

APPEARANCE / ODOUR: off-white, turbid fluid- fermented odour**S.G. / BULK DENSITY(g/cc):** 0.99 ± 0.04**pH:** 6.0 ± 0.5**VAPOUR PRESSURE (mmHg):** 22.6 @ 20°C**VAPOUR DENSITY (air=1):** not available**ODOUR THRESHOLD:** not applicable**BOILING POINT:** approx. 100°C**FREEZING POINT:** -16°C**PERCENT VOLATILE:** 10%**SOLUBILITY IN WATER:** soluble**EVAPORATION RATE (water=1):** 0.98

V - TOXICOLOGICAL PROPERTIES

EFFECTS OF ACUTE EXPOSURE TO MATERIAL:**EYES:** May cause severe irritation.**SKIN:** Repeated or prolonged contact may result in irritation.**INGESTION:** May cause irritation of digestive tract.**INHALATION:** Breathing spray or mist may cause respiratory irritation.

LD50 (calculated): 1145 mg/kg		LC50 (calculated): not available	
OTHER TOXIC EFFECTS: TLV (ethylene oxide) 1.8 mg/kg			
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:	Flush affected area thoroughly with water. Remove contaminated clothing. If irritation develops, contact a physician.		
INGESTION:	Rinse mouth and throat thoroughly with water. 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: >200°C C.O.C.		AUTO IGNITION TEMPERATURE, °C: N/Ap	
EXTINGUISHING MEDIA: Water [x] Dry Chemical [x] Carbon Dioxide [x] Foam [x] Other []			
SPECIAL FIRE FIGHTING PROCEDURES: not applicable			
HAZARDOUS COMBUSTION PRODUCTS: Oxides of carbon, nitrogen, sulphur.			
EXPLOSIVE SENSITIVITY TO: not applicable			
VIII - REACTIVITY DATA			
STABILITY: Stable [X] Unstable []			
CONDITIONS TO AVOID: Avoid freezing or storage above 30°C.			
INCOMPATIBILITY (Material to Avoid) : Strong oxidizers			
HAZARDOUS DECOMPOSITION PRODUCTS: Heat released on contact with strong oxidizers			
REACTIVITY: not dangerously reactive			
IX - MSDS PREPARATION			
SOURCES USED: DWC MSDS, RTECS, ChemInfo		PREPARED BY: JohnsonDiversey Canada, Inc. Regulatory Department Institutional Division Phone (905) 829-1200	
PREPARATION DATE: April 15, 2003			
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