



I - PRODUCT IDENTIFICATION AND USE

MSDS ID: 1399

PRODUCT NAME: LEVER PRO ENZYMATED PRE-TREATMENT**USE:** Laundry Pre-spotter**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
Dipropylene glycol monoethyl ether	10-30	034590-94-8	LD50 5700 mg/kg	oral/rat
Alcohols, c12-15 ethoxylate	10-30	068131-39-5	LD50 2500 mg/kg	oral/rat
Monoethanolamine dodecylbenzene sulfonate	1-5	068478-47-7	not available	
Propylene glycol	10-30	000057-55-6	LD50 20000 mg/kg	oral/rat
Proteolytic enzyme	0.5- 1.5	001395-21-7	not available	

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: Clear blue liquid, citrus odour**S.G. / BULK DENSITY(g/cc):** 0.90**pH:** 7.0 ± 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 nausea, vomiting and diarrhea. May cause irritation of mouth and throat.	
INHALATION: Breathing spray or mist may cause respiratory irritation. Repeated or prolonged exposure may cause respiratory sensitization and allergic response in hypersensitive individuals.	
LD50 (calculated): 2,500 mg/kg	LC50 (calculated): not available
OTHER TOXIC EFFECTS: TLV-TWA (dipropylene glycol monoethyl ether) 100 ppm (606 mg/m3), STEL 150 ppm (909 mg/m3) skin; TLV (propylene glycol) 50 ppm AIHA WEEL; ACGIH TLV-TWA (proteolytic enzyme) 0.0003 mg/m3, STEL 0.0006 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: 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: 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 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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