



I - PRODUCT IDENTIFICATION AND USE				MSDS ID: 4814	
PRODUCT NAME: LED HARD DETERGENT					
USE: Machine Warewashing Detergent					
SUPPLIER: JohnsonDiversey Canada, Inc. 2401 Bristol Circle Oakville Ontario, L6H 6P1, Canada			EMERGENCY PHONE: 1-800-668-7171		
WHMIS CLASSIFICATION: D2B E CHEMICAL FAMILY: caustic alkali			TRADE NAME / SYNONYMS: not applicable CHEMICAL NAME: not applicable		
II - HAZARDOUS INGREDIENTS					
HAZARDOUS INGREDIENT	% w/w	CAS #	LD50 / LC50	Route / Species	
Sodium hydroxide	7-13	001310-73-2	LDLo 500 mg/kg	oral/rab	
Sodium nitrilotriacetate	10-30	005064-31-3	LD50 1100 mg/kg	oral/rat	
III - HANDLING AND DISPOSAL PROCEDURES					
PERSONAL PROTECTIVE EQUIPMENT: Gloves: Natural rubber, Neoprene or Nitrile Eye: safety goggles Footwear: not required Respiratory: If mists are generated, use NIOSH approved mask Other: rubber apron as required					
SPECIAL HANDLING PROCEDURES AND EQUIPMENT: Avoid eye and skin contact.					
VENTILATION REQUIREMENTS: general ventilation					
INCOMPATIBILITY (Material to Avoid): Acids, aluminum and soft metals.					
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: Store in a cool dry area in a closed container. UN1760					
IV - PHYSICAL PROPERTIES					
APPEARANCE / ODOUR: Clear red liquid					
S.G. / BULK DENSITY(g/cc): 1.27			pH: (1% solution): 12.2		
VAPOUR PRESSURE (mmHg): not available			VAPOUR DENSITY (air=1): not available		
ODOUR THRESHOLD: not applicable			BOILING POINT: approx. 100°C		
FREEZING POINT: approx. -10°C			PERCENT VOLATILE: 68%		
SOLUBILITY IN WATER: soluble			EVAPORATION RATE (water=1): 1		
V - TOXICOLOGICAL PROPERTIES					
EFFECTS OF ACUTE EXPOSURE TO MATERIAL: EYES: Corrosive. May cause severe irritation. May cause permanent damage if not treated promptly. SKIN: Corrosive. May cause severe irritation. May cause temporary or permanent damage if not treated promptly. INGESTION: Corrosive. May cause severe irritation of the digestive tract. May cause permanent damage if not treated promptly. INHALATION: Corrosive. Inhalation of spray or mist may cause severe respiratory irritation.					
LD50 (calculated): LD50 2588 mg/kg			LC50 (calculated): not applicable		

OTHER TOXIC EFFECTS: TLV - CL (sodium hydroxide): 2 mg/m3	
EFFECTS OF CHRONIC EXPOSURE TO MATERIAL:	This product contains NTA. In laboratory tests, rats and mice continuously fed highly exaggerated doses of NTA showed evidence of urinary tract (bladder and kidney) toxicity, including cancer; lower doses showed none of these toxic effects. By ACGIH guidelines, NTA would not be considered an occupational (human) carcinogen of any practical significance.
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. If irritation develops, contact a physician.
INGESTION:	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: Wear self-contained breathing apparatus.	
HAZARDOUS COMBUSTION PRODUCTS: Oxides of carbon, nitrogen.	
EXPLOSIVE SENSITIVITY TO: not applicable	
VIII - REACTIVITY DATA	
STABILITY: Stable [x] Unstable []	
CONDITIONS TO AVOID: not applicable	
INCOMPATIBILITY (Material to Avoid) : Acids, aluminum and soft metals.	
HAZARDOUS DECOMPOSITION PRODUCTS: Heat released on contact with acids. Contact with aluminum or zinc generates hydrogen gas. Nitrogen oxides, carbon monoxide.	
REACTIVITY: not dangerously reactive	
IX - MSDS PREPARATION	
SOURCES USED: RTECS, ChemInfo	PREPARED BY: JohnsonDiversey Canada, Inc. Regulatory Department Institutional Division Phone (905) 829-1200
PREPARATION DATE: April 15, 2003	
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