

## **MATERIAL SAFETY DATA SHEET**



I - PRODUCT IDENTIFICATION AND USE MSDS ID: 0402 PRODUCT NAME: LEVER CLEAN CHLORINATED 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:       Chlorinated Alkali		TRADE NAME / SYNONYMS: not applicable CHEMICAL NAME: not applicable				
II - HAZARDOUS INGREDIENTS						
HAZARDOUS INGREDIENT	% w/w		CAS #	LD50 / LC50	Route / Species	
Potassium hydroxide Sodium hypochlorite (10.5%-solution)	7-13 7-13		001310-58-3 007681-52-9	LD50 273 mg/kg LD50 4445 mg/kg	oral/rat oral/rat	
III - HANDLING AND DISPOSAL PROCEDURES					01al/1at	
PERSONAL PROTECTIVE EQUIPMENT:         Gloves:       natural rubber, neoprene or nitrile       Eye:       sepiratory:         Respiratory:       If mists are generated, use NIOSH approved mask.         SPECIAL HANDLING PROCEDURES AND EQUIPMENT:         VENTILATION REQUIREMENTS:       General ventilation.         INCOMPATIBILITY (Material to Avoid):       Acids, ammonia, u         SPILL PROCEDURES:       Wear protective clothing. Contain t absorbent clay for disposal. Wash         WASTE DISPOSAL:       Dispose according to municipal, province         STORAGE / SHIPPING REQUIREMENT:       Store in a cool dry	Avoid eye a rrea, amines. the spill. Do r spill area with cial, and fede	nd skin o nd skin o not allow h large v ral regula	the spilled product to olumes of water.		soak up with	
IV - PHYSICAL PROPERTIES						
APPEARANCE / ODOUR: Clear pale yellow liquid - chlorine odour						
S.G. / BULK DENSITY(g/cc): 1.27			<b>pH:</b> 13.5			
VAPOUR PRESSURE (mmHg): not available			VAPOUR DENSITY (air=1): not available			
ODOUR THRESHOLD: 0.2-0.4 ppm chlorine			BOILING POINT: approx. 100°C			
FREEZING POINT: approx10°C			PERCENT VOLATILE: approx. 89%			
SOLUBILITY IN WATER: soluble EVAPORATION RATE (water=1): 1						
V - TOXIO	COLOGIC	AL PR	OPERTIES			
EFFECTS OF ACUTE EXPOSURE TO MATERIAL:EYES:Corrosive. May cause severe irritation. May causeSKIN:Corrosive. May cause severe irritation. May causeINGESTION:Corrosive. May cause severe irritation of the dimensional data data data data data data data da	use permane	nt dama	ge if not treated promp	tly.		
INHALATION: Corrosive. Inhalation of spray or mist may cause severe re						
LD50 (calculated): LD50 2632 mg/kg		LC50 (calculated): not applicable				

OTHER TOXIC EFFECTS: TLV-CL (potassium hydroxide) 2 mg/m3; TLV-TWA (Cl2) 0.5 ppm, STEL 1 ppm						
EFFECTS OF CHRONIC none known EXPOSURE TO MATERIAL:						
VI - 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.						
SKIN: Flush affected area thoroughly with water. If irritation deve	Flush affected area thoroughly with water. If irritation develops, contact a physician.					
<b>INGESTION:</b> 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: Chlorine gas and oxygen released when heated.						
EXPLOSIVE SENSITIVITY TO: not applicable						
VIII - REACTIVITY DATA						
STABILITY: Stable [ ] Unstable [x]						
CONDITIONS TO AVOID: Chlorine loss accelerated at high temperature and when exposed to light.						
INCOMPATIBILITY (Material to Avoid) : Acids, ammonia, urea, amines.						
HAZARDOUS DECOMPOSITION PRODUCTS: Contact with acid generates heat and chlorine gas. Contact with ammonia, urea and amines produces nitrogen gas and chloramines.						
REACTIVITY: not dangerously reactive						
IX - MSDS PREPARATION						
SOURCES USED: RTECS, ChemInfo	PREPARED BY: JohnsonDiversey Canada, Inc. Regulatory Department					
PREPARATION DATE: April 15, 2003	Institutional Division Phone (905) 829-1200					
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