



I - PRODUCT IDENTIFICATION AND USE				MSDS ID: 3039373	
PRODUCT NAME: CIRCOPOWER AF 222					
USE: Chlorinated liquid cleaner					
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	
Sodium hydroxide	10-30	001310-73-2	LDLo 500 mg/kg	oral/rab	
Sodium hypochlorite	1-5	007681-52-9	LD50 375 mg/kg	oral/rat	
III - HANDLING AND DISPOSAL PROCEDURES					
PERSONAL PROTECTIVE EQUIPMENT: Gloves: Natural Rubber or Neoprene Eye: Safety goggles Footwear: As required Respiratory: If mists are generated, use NIOSH approved mask Other: Rubber apron					
SPECIAL HANDLING PROCEDURES AND EQUIPMENT: Do not breathe mist, spray or vapours. Avoid eye and skin contact.					
VENTILATION REQUIREMENTS: Mechanical exhaust					
INCOMPATIBILITY (Material to Avoid): Acids, reducing agents, ammonia and amines.					
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.				UN3266	
IV - PHYSICAL PROPERTIES					
APPEARANCE / ODOUR: Clear, yellow liquid - chlorine odour					
S.G. / BULK DENSITY(g/cc): 1.22			pH: approx. 13		
VAPOUR PRESSURE (mmHg): not applicable			VAPOUR DENSITY (air=1): not applicable		
ODOUR THRESHOLD: not available			BOILING POINT: approx. 100°C		
FREEZING POINT: not available			PERCENT VOLATILE: approx. 70%		
SOLUBILITY IN WATER: soluble			EVAPORATION RATE (water=1): not applicable		
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 and corrosive burns. May cause temporary or permanent damage if not treated promptly. INGESTION: Corrosive. May cause severe irritation of the digestive tract. May cause temporary or permanent damage if not treated promptly. INHALATION: Corrosive. Inhalation of spray or mist may cause irritation of the respiratory tract.					
LD50 (calculated): 2683 mg/kg			LC50 (calculated): not available		

OTHER TOXIC EFFECTS: Sodium hydroxide TLV-TWA 2 mg/m3; Sodium hypochlorite TLV-TWA 0.5 ppm CL2, STEL 1 ppm CL2	
EFFECTS OF CHRONIC EXPOSURE TO MATERIAL: not available	
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: When heated chlorine gas is generated.	
EXPLOSIVE SENSITIVITY TO: not applicable	
VIII - REACTIVITY DATA	
STABILITY: Stable [x] Unstable []	
CONDITIONS TO AVOID: Chlorine gas may be released when heated.	
INCOMPATIBILITY (Material to Avoid) : Acids, reducing agents, amines and ammonia.	
HAZARDOUS DECOMPOSITION PRODUCTS: Contact with acids will produce heat and release chlorine gas. Reducing agents can generate heat releasing chlorine. Contact with ammonia and nitrogen containing compounds can produce nitrogen gas and chloramines.	
REACTIVITY: not applicable	
IX - MSDS PREPARATION	
SOURCES USED: RTECS	PREPARED BY: JohnsonDiversey Canada, Inc. Regulatory Department Food Division Phone (905) 829-1200
PREPARATION DATE: April 15, 2003	
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