



I - PRODUCT IDENTIFICATION AND USE		MSDS ID: 57460		
PRODUCT NAME: DIVOS 110				
USE: Alkaline detergent for all UF membranes				
SUPPLIER: JohnsonDiversey Canada, Inc. 2401 Bristol Circle Oakville Ontario, L6H 6P1, Canada	EMERGENCY PHONE: 1-800-668-7171			
WHMIS CLASSIFICATION: E CHEMICAL FAMILY: alkali	TRADE NAME / SYNONYMS: not applicable CHEMICAL NAME: not applicable			
II - HAZARDOUS INGREDIENTS				
HAZARDOUS INGREDIENT	% w/w	CAS #	LD50 / LC50	Route / Species
Potassium hydroxide	7-13	001310-58-3	LD50 365 mg/kg	oral/rat
Tetrapotassium pyrophosphate	7-13	007320-34-5	LD50 2980 mg/kg	oral/rat
Lauryl dimethylamine oxide	1-5	001643-20-5	LD50 >1000 mg/kg	oral/rat
III - HANDLING AND DISPOSAL PROCEDURES				
PERSONAL PROTECTIVE EQUIPMENT:				
Gloves: Natural rubber, Neoprene, Nitrile or PVC		Eye: Safety goggles		Footwear: As required
Respiratory: If mists are generated, use NIOSH approved mask		Other: Rubber apron		
SPECIAL HANDLING PROCEDURES AND EQUIPMENT: Avoid eye and skin contact.				
VENTILATION REQUIREMENTS: General ventilation				
INCOMPATIBILITY (Material to Avoid): Acids, 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. UN1814				
IV - PHYSICAL PROPERTIES				
APPEARANCE / ODOUR: Clear colourless liquid				
S.G. / BULK DENSITY(g/cc): 1.18		pH: (concentrate): >12.5		
VAPOUR PRESSURE (mmHg): not applicable		VAPOUR DENSITY (air=1): not applicable		
ODOUR THRESHOLD: not available		BOILING POINT: 100°C		
FREEZING POINT: not available		PERCENT VOLATILE: 76%		
SOLUBILITY IN WATER: soluble		EVAPORATION RATE (water=1): not available		
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.				
INGESTION: Corrosive. May cause severe irritation of the digestive tract.				
INHALATION: Breathing spray or mist may cause respiratory irritation.				

LD50 (calculated): 3155 mg/kg	LC50 (calculated): not available
OTHER TOXIC EFFECTS: Potassium hydroxide TLV - CL 2 mg/m3	
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.
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 and nitrogen.	
EXPLOSIVE SENSITIVITY TO: not applicable	
VIII - REACTIVITY DATA	
STABILITY: Stable [x] Unstable []	
CONDITIONS TO AVOID: not applicable	
INCOMPATIBILITY (Material to Avoid) : acids, soft metals such as sluminum and zinc.	
HAZARDOUS DECOMPOSITION PRODUCTS: Contact with acids will generate heat. Contact with soft metals forms flammable hydrogen gas.	
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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