



MATERIAL SAFETY DATA SHEET



I - PRODUCT IDENTIFICATION AND USE MSDS ID: 8522219					
PRODUCT NAME: CHALLENGE					
USE: A non foaming, chlorinated alkaline C.I.P. 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 Sodium hypochlorite	10-30 1-5		001310-73-2 007681-52-9	LDLo 500 mg/kg LD50 375 mg/kg	oral/rab oral/rat
III - HANDLING AND DISPOSAL PROCEDURES					
PERSONAL PROTECTIVE EQUIPMENT: Gloves: Natural Rubber, Neoprene or Nitrile 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. Do not breathe mist, spray or vapours. VENTILATION REQUIREMENTS: Mechanical exhaust INCOMPATIBILITY (Material to Avoid): Acids, reducing agents, ammonia and amines, 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. UN1824 (UN3266 bulk)					
STORAGE / SHIPPING REQUIREMENT: Store in a cool dry area in a closed container. UN1824 (UN3266 bulk) IV - PHYSICAL PROPERTIES					
APPEARANCE / ODOUR: Clear, yellow liquid - chlorine odour S.G. / BULK DENSITY(g/cc): 1.17 VAPOUR PRESSURE (mmHg): not applicable ODOUR THRESHOLD: not available FREEZING POINT: not available		pH: (concentrate): 13.2 VAPOUR DENSITY (air=1): not applicable BOILING POINT: approx. 100°C PERCENT VOLATILE: 85%			
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. 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.					ated promptly.
LD50 (calculated): 3788 mg/kg		LC50 (calculated): not available			

OTHER TOXIC EFFECTS: TWA 0.5 ppm Cl2, STEL 1 ppm Cl2 (Sodium	n hypochlorite); TLV: TWA 2 mg/m3 (Sodium Hydroxide)					
EFFECTS OF CHRONIC not available EXPOSURE TO MATERIAL:						
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	Г					
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 - REACT	IVITY DATA					
STABILITY: Stable [x] Unstable []						
CONDITIONS TO AVOID: Chlorine loss accelerated at high temperatures and when exposed to light.						
INCOMPATIBILITY (Material to Avoid) : Acids, reducing agents, a	amines and ammonia, soft metals					
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. Contact with soft metals forms flammable hydrogen gas.						
REACTIVITY: Not applicable						
IX - MSDS PREPARATION						
SOURCES USED: RTECS	PREPARED BY: JohnsonDiversey Canada, Inc. Regulatory Department					
PREPARATION DATE: April 15, 2003	Food Division Phone (905) 829-1200					
Information on this form is furnished in compliance with the Regulations respecting Controlled Products under the Hazardous Products Act and is not to be used for any other purpose, nor is it to be reproduced or published. JohnsonDiversey Canada assumes no responsibility for injury to any person or property resulting from any use of the material if reasonable safety procedures are not adhered to. In addition, JohnsonDiversey Canada assumes no responsibility for injury to any person or property resulting from any abnormal use or theft of the material, even if reasonable safety procedures are followed. Each user assumes the risk in his use of the material and should review the data and recommendations in the specific context of the intended use.						