



I - PRODUCT IDENTIFICATION AND USE				MSDS ID: 11040	
PRODUCT NAME: CLAX 4AL1					
USE: Liquid chlorine destainer					
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: Sodium hypochlorite solution		
II - HAZARDOUS INGREDIENTS					
HAZARDOUS INGREDIENT		% w/w	CAS #	LD50 / LC50	Route / Species
Sodium hypochlorite		10-30	007681-52-9	LD50 375 kg/mg	oral/rat
III - HANDLING AND DISPOSAL PROCEDURES					
PERSONAL PROTECTIVE EQUIPMENT: Gloves: 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, spary or vapours.					
VENTILATION REQUIREMENTS: Mechanical exhaust					
INCOMPATIBILITY (Material to Avoid): Acids, oxidizable materials, ammonia, urea, other nitrogenous materials, and metals.					
SPILL PROCEDURES: Contain the spill. Do not allow the spilled product to go to drain. Neutralize with sodium bisulfate or thiosulfate. 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. Keep away from oxidizable materials. UN1791					
IV - PHYSICAL PROPERTIES					
APPEARANCE / ODOUR: Clear, yellow-green liquid - chlorine odour					
S.G. / BULK DENSITY(g/cc): 1.20			pH: (concentrate): 12.0		
VAPOUR PRESSURE (mmHg): 20.4 @ 20°C			VAPOUR DENSITY (air=1): not applicable		
ODOUR THRESHOLD: not available			BOILING POINT: approx. 100°C		
FREEZING POINT: -25°C			PERCENT VOLATILE: 85%		
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. 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. May lead to convulsions, coma and death. INHALATION: May cause irritation of the nose and throat, coughing, difficulty breathing; may cause pulmonary edema.					
LD50 (calculated): not available			LC50 (calculated): not available		

OTHER TOXIC EFFECTS: none known	
EFFECTS OF CHRONIC EXPOSURE TO MATERIAL: none known	
VI - FIRST AID MEASURES	
EYES:	Flush eyes with plenty of water for at least 15 minutes. Hold eye lids open while rinsing. Contact a physician immediately.
SKIN:	Flush affected area thoroughly with water. If irritation persists, contact a physician.
INGESTION:	Drink large volumes of water . Never give anything by mouth to an unconscious person. Do not induce vomiting. Contact a physician immediately.
INHALATION:	Remove patient to fresh air. If breathing difficulty occurs, get medical attention.
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 and full protective equipment.	
HAZARDOUS COMBUSTION PRODUCTS: chlorine gas	
EXPLOSIVE SENSITIVITY TO: not applicable	
VIII - REACTIVITY DATA	
STABILITY: Stable [] Unstable [X]	
CONDITIONS TO AVOID: Do not expose to temperatures above 40°C (104°F), sunlight, or metals. Chlorine loss accelerated at high temperatures and when exposed to light.	
INCOMPATIBILITY (Material to Avoid) : Acids, oxidizable materials, ammonia, urea, metals.	
HAZARDOUS DECOMPOSITION PRODUCTS: Chlorine gas is released by contact with acids; oxygen is released by contact with metals. Contact with ammonia and urea produce nitrogen gas and chloramines. Contact with oxidizable materials produces heat which may generate chlorine gas.	
REACTIVITY: not applicable	
IX - MSDS PREPARATION	
SOURCES USED: RTECS	PREPARED BY: JohnsonDiversey Canada, Inc. Regulatory Department Institutional Division Phone (905) 829-1200
PREPARATION DATE: April 15, 2003	
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