



I - PRODUCT IDENTIFICATION AND USE

MSDS ID: 2226

PRODUCT NAME: LIQUID PRESOAK K4

USE: Cutlery Presoak

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	1-5	001310-58-3	LD50 273 mg/kg	oral/rat
Sodium hypochlorite (10.5%-solution)	1-5	007681-52-9	LD50 4445 mg/kg	oral/rat
Sodium metasilicate	1-5	001344-09-8	LD50 3300 mg/kg	oral/rat

III - HANDLING AND DISPOSAL PROCEDURES

PERSONAL PROTECTIVE EQUIPMENT:

Gloves: Natural Rubber, Neoprene or Nitrile Eye: safety goggles Footwear: not required

Respiratory: If mists are generated, use NIOSH approved mask. Other: not required

SPECIAL HANDLING PROCEDURES AND EQUIPMENT: Avoid eye and skin contact.

VENTILATION REQUIREMENTS: General ventilation.

INCOMPATIBILITY (Material to Avoid): Acids, ammonia, urea, amines.

SPILL PROCEDURES: Wear protective clothing. 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. UN1760

IV - PHYSICAL PROPERTIES

APPEARANCE / ODOUR: Clear yellow liquid - chlorine odour

S.G. / BULK DENSITY(g/cc): 1.15

pH: (1% solution): 11.0

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: approx. 0°C

PERCENT VOLATILE: approx. 83%

SOLUBILITY IN WATER: soluble

EVAPORATION RATE (water=1): approx. 1

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 permanent damage if not treated promptly.

INGESTION: Corrosive. May cause severe irritation of the digestive tract. May cause permanent damage if not treated promptly.

INHALATION: Breathing vapours may cause respiratory irritation.

LD50 (calculated): LD50 7825 mg/kg		LC50 (calculated): not applicable	
OTHER TOXIC EFFECTS: TLV - CL (Potassium hydroxide): 2 mg/m3; TLV - TWA (Chlorine): 0.5 ppm, STEL 1.0 ppm			
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 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: 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 Institutional Division Phone (905) 829-1200	
PREPARATION DATE: April 15, 2003			
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