



I - PRODUCT IDENTIFICATION AND USE

MSDS ID: 4728

PRODUCT NAME: LIQUID CHLORINE DESTAINER 4AL1

USE: Laundry Bleach

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 (10.5%-solution)	100	007681-52-9	LD50 4445 mg/kg	oral/rat

III - HANDLING AND DISPOSAL PROCEDURES

PERSONAL PROTECTIVE EQUIPMENT:

Gloves: natural rubber or neoprene

Eye: safety goggles

Footwear: not applicable

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 or spray.

VENTILATION REQUIREMENTS: general ventilation

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 thiosulphate, sodium bisulphite, or dilute hydrogen peroxide. 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. Avoid freezing. UN1791

IV - PHYSICAL PROPERTIES

APPEARANCE / ODOUR: Clear, yellow-green liquid - chlorine odour.

S.G. / BULK DENSITY(g/cc): 1.135 ± 0.015

pH: 12.5 ± 0.5

VAPOUR PRESSURE (mmHg): 1.18

VAPOUR DENSITY (air=1): not applicable

ODOUR THRESHOLD: not available

BOILING POINT: 100°C

FREEZING POINT: -25°C

PERCENT VOLATILE: 85%

SOLUBILITY IN WATER: soluble

EVAPORATION RATE (water=1): 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 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: Will cause irritation of the nose and throat, coughing, difficulty breathing; may cause pulmonary edema.

LD50 (calculated): 4445 mg/kg		LC50 (calculated): Not available	
OTHER TOXIC EFFECTS: Sodium Hypochlorite TLV-TWA 0.5 ppm (Cl2), STEL 1 ppm (Cl2)			
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. 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 and full protective equipment.			
HAZARDOUS COMBUSTION PRODUCTS: chlorine gas			
EXPLOSIVE SENSITIVITY TO: not applicable			
VIII - REACTIVITY DATA			
STABILITY: Stable [] Unstable [X]			
CONDITIONS TO AVOID: Decomposes slowly. Do not expose to temperatures above 40°C (104°F), sunlight, or metals.			
INCOMPATIBILITY (Material to Avoid) : Acids, oxidizable materials, ammonia, urea, metals.			
HAZARDOUS DECOMPOSITION PRODUCTS: Contact with acid generates Chlorine Gas. Contact with metals releases oxygen. Contact with ammonia and urea produce nitrogen gas and chloramines. Contact with oxidizable materials produces heat which may generate chlorine gas.			
REACTIVITY: not dangerously reactive			
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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