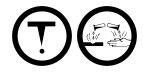




MATERIAL SAFETY DATA SHEET



I - PRODUCT IDENTIFICATION AND USE MSDS ID: 0055		
PRODUCT NAME: FILTERED 20% W/V SODIUM HYPOCHLORITE		
USE: Liquid 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: Hypochlorous acid salt	TRADE NAME / SYNONYMS: not applicable CHEMICAL NAME: Sodium hypochlorite solution	
II - HAZARDOUS INGREDIENTS		
HAZARDOUS INGREDIENT % w/v	CAS # LD50 / LC50 Route / Species	
Sodium hypochlorite 10-30	007681-52-9 LD50 8910 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 Other: impermeable apron mask SPECIAL HANDLING PROCEDURES AND EQUIPMENT: Avoid eye and skin contact. VENTILATION REQUIREMENTS: mechanical exhaust INCOMPATIBILITY (Material to Avoid): Acids, oxidizable materials, ammonia, urea, other nitrogenous materials, metals, and organic solvents. SPILL PROCEDURES: Contain the spill. Do not allow the spilled product to go to drain. Neutralize with sodium sulfite, 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. UN1791		
APPEARANCE / ODOUR: Clear, yellow-green liquid - chlorine odour S.G. / BULK DENSITY(g/cc): 1.26 ± 0.01 VAPOUR PRESSURE (mmHg): 17.5 ODOUR THRESHOLD: chlorine is 0.5-3 ppm FREEZING POINT: -30°C SOLUBILITY IN WATER: soluble	pH: (concentrate): 12.5 ± 0.5 VAPOUR DENSITY (air=1): not applicable BOILING POINT: approx. 100°C PERCENT VOLATILE: 85% 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 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): 8910 mg/kg	LC50 (calculated): not available	
OTHER TOXIC EFFECTS: Sodium Hypochlorite TSA 0.5 ppm (Cl2), STEL 1 ppm (Cl2)		
EFFECTS OF CHRONIC none known EXPOSURE TO MATERIAL:		
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] Carbor	n Dioxide [X] Foam [X] Other []	
SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breat	thing apparatus and full protective equipment.	
HAZARDOUS COMBUSTION PRODUCTS: chlorine gas		
EXPLOSIVE SENSITIVITY TO: nor available		
VIII - REACTIVITY DATA		
STABILITY: Stable [] Unstable [X]		
CONDITIONS TO AVOID: Decomposes slowly. Do not expose to temp solutions to evaporate dry.	peratures above $40^{\circ}C$ ($104^{\circ}F$), sunlight, heat or metals. Do not allow	
INCOMPATIBILITY (Material to Avoid) : Acids, oxidizable materia	als, ammonia, urea, metals and organic solvents.	
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: Contact with organohalogen compounds may form apo	ontaneously combustible compounds.	
IX - MSDS PR	REPARATION	
SOURCES USED: RTECS	PREPARED BY: JohnsonDiversey Canada, Inc.	
	Regulatory Department	
PREPARATION DATE: April 15, 2003	Industrial Division Phone (905) 829-1200	
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