



MATERIAL SAFETY DATA SHEET



I - PRODUCT IDENTIFICATION AND USE MSDS ID: 01112				
PRODUCT NAME: LIQUID DICA				
USE: Inhibited acid descaler				
SUPPLIER: JohnsonDiversey Canada, Inc. 2401 Bristol Circle Oakville Ontario, L6H 6P1, Canada		EMERGENCY PHONE: 1-800-668-7171		
WHMIS CLASSIFICATION: D1A E CHEMICAL FAMILY: mineral acid		TRADE NAME / SYNONYMS: not applicable CHEMICAL NAME: not applicable		
II - HA		NGREDIENTS		
HAZARDOUS INGREDIENT	% w/w	CAS #	LD50 / LC50	Route / Species
Hydrochloric acid	15-40	007647-01-0	LD50 900 mg/kg	oral/rab
III - HANDLING AND DISPOSAL PROCEDURES				
PERSONAL PROTECTIVE EQUIPMENT:				
Gloves: Neoprene, or nitrile Eye: Safety goggles Footwear: As required				
Respiratory: If mists are generated, use NIOSH approve mask	ed Other: R	Rubber apron		
SPECIAL HANDLING PROCEDURES AND EQUIPMENT:	Do not breathe	e mist, spray or vapours.	void eye and skin conta	act.
VENTILATION REQUIREMENTS: mechanical exhaust				
INCOMPATIBILITY (Material to Avoid): Alkaline and chlo	rinated materials	s, soft metals.		
SPILL PROCEDURES: Contain the spill. Do not allow the disposal. Wash spill area with large	e spilled product ge volumes of wa	to go to drain. Mop up or ater. Ventilate area well.	soak up with absorbent Neutralize with lime or s	clay for oda ash.
WASTE DISPOSAL: Dispose according to municipal, provi	ncial, and federa	al regulations.		
STORAGE / SHIPPING REQUIREMENT: Store in a cool d	ry area in a close	ed container. UN1789		
IV - PHYSICAL PROPERTIES				
APPEARANCE / ODOUR: Clear, light amber liquid				
S.G. / BULK DENSITY(g/cc): 1.15		pH: < 1.0		
VAPOUR PRESSURE (mmHg): 24mm Hg @ 20°C		VAPOUR DENSITY (air=1): 1.3 (HCl gas)		
ODOUR THRESHOLD: not available		BOILING POINT: 100°C		
FREEZING POINT: -40°C		PERCENT VOLATILE: 98%		
SOLUBILITY IN WATER: soluble		EVAPORATION RATE (water=1): >1		
V - TOXI	COLOGICAL	. PROPERTIES		
EFFECTS OF ACUTE EXPOSURE TO MATERIAL: EYES: Corrosive. May cause severe irritation. May of	cause permanent	t damage if not treated pro	omptly.	
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. Nausea, vomiting, diarrhea, circulatory collapse and death may occur.				
INHALATION: May cause irritation of respiratory tract, coughing and choking. Inflammation and ulceration of respiratory tract may occur.				may occur.
LD50 (calculated): 900 mg/kg	L	.C50 (calculated): 15	562 ppm/4H	

OTHER TOXIC EFFECTS: Breathing vapours may cause delayed lung	injury. TLV: CL (as Hydrogen chloride) 5 ppm (7 mg/m3)				
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. Will generate explosive hydrogen gas on contact w					
FLASH POINT, °C: not applicable	AUTO IGNITION TEMPERATURE,°C: N/Ap				
	Dioxide [x] Foam [x] Other []				
SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus.					
HAZARDOUS COMBUSTION PRODUCTS: Hydrogen chloride gas released when heated. Hydrogen gas released on contact with soft metals.					
EXPLOSIVE SENSITIVITY TO: not applicable					
VIII - REACTIVITY DATA					
STABILITY: Stable [x] Unstable []					
CONDITIONS TO AVOID: not applicable.					
INCOMPATIBILITY (Material to Avoid) : Alkaline and chlorinated materials. Aluminum, brass, copper, iron, mild steel. Organic amines, oxides, and polymerizable monomers.					
HAZARDOUS DECOMPOSITION PRODUCTS: Contact with chlorinated materials will release chlorine gas. Contact with alkali will generate heat and release hydrogen chloride gas. Contact with soft metals forms flammable hydrogen gas.					
REACTIVITY: not dangerously reactive					
IX - MSDS PREPARATION					
SOURCES USED: RTECS, Cheminfo	PREPARED BY: JohnsonDiversey Canada, Inc. Regulatory Department				
PREPARATION DATE: April 15, 2003	Industrial Division Phone (905) 829-1200				
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