

## MATERIAL SAFETY DATA SHEET

IDENTIFICATION & USE	TYPE OF PRODUCT <b>2.00 pH Buffer</b>		CHEMICAL FAMILY <b>Inorganic acid</b>									
	PRODUCT NUMBER <b>A1100071, A1100021, A1100132</b>		FORMULA									
	MANUFACTURER'S NAME AND ADDRESS <b>IC CONTROLS™</b>		PRODUCT USE									
	29 Centennial Road		EMERGENCY TELEPHONE NO. <b>IC Controls: (519)941-8161</b>									
	Orangeville, Ont. L9W 1R1		<b>Poison Info Centre: 1 800 268-9017</b>									
	CONTAINER SIZE AND TYPE <b>1L polyethylene bottle</b>		USE AS RECEIVED		YES							
HAZARDOUS INGREDIENTS	SHIPPING NAME <b>not regulated</b>		CLASS									
	PIN		WHMIS Classification <b>not controlled</b>		PACKING GROUP							
	CONCENTRATION*	HAZARDOUS	INGREDIENTS	CHEMICAL NAMES	LD <sub>50</sub> mg/kg	LC <sub>50</sub> **	CAS REGISTRY NO.					
	1	0.2-0.5	Hydrochloric Acid				7647-01-0					
PHYSICAL DATA	FREEZING POINT		< 0 °C		MELTING POINT		N. Avail. °C		BOILING POINT		100 °C	
	VAPOUR PRESSURE		N. Avail.		VAPOUR DENSITY (AIR = 1)		N. Avail.		SPECIFIC GRAVITY (H <sub>2</sub> O = 1)		1	
	COEFFICIENT OF WATER/OIL DISTRIBUTION		N. Appl.		EVAPORATION RATE		N. Avail.		pH AT 25 °C		2.0	
	ODOUR THRESHOLD				PHYSICAL STATE		GAS		LIQUID		PASTE SOLID POWDER	
	ODOUR AND APPEARANCE		Clear, Odourless Liquid									
FIRE & EXPLOSION DATA	FLASH POINT AND METHOD OF DETERMINATION					FLAMMABLE LIMITS		L.E.L.		U.E.L.		
	N. Avail.							N.A.		N.A.		
	CONDITIONS OF FLAMMABILITY											
	Not flammable											
	MEANS OF EXTINCTION											
	CO <sub>2</sub> , Dry Chemical, Water											
	HAZARDOUS COMBUSTION PRODUCTS											
	Chlorine gas											
					AUTO IGNITION TEMP.		°C					
EXPLOSION DATA		SENSITIVITY TO MECHANICAL IMPACT										
		None										
		SENSITIVITY TO STATIC DISCHARGE										
		None										
SPECIAL FIRE FIGHTING PROCEDURES												

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<b>REACTIVITY</b>	STABLE	YES	CONDITIONS TO AVOID		PRODUCT NUMBER	
	UNSTABLE				A1100071, A1100021, A1100132	
	INCOMPATIBILITY—MATERIALS TO AVOID F <sub>2</sub> , KNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , NH <sub>4</sub> OH, Na, HClO <sub>4</sub> , NaOH, CaC <sub>2</sub>					
	HAZARDOUS DECOMPOSITION PRODUCTS HCl gas, chlorine gas if in contact with oxidizers, hydrogen gas if in contact with metals.					
CONDITIONS OF REACTIVITY						
<b>HEALTH HAZARD DATA</b>	HAZARDOUS ROUTES OF ENTRY	INHALATION	INGESTION	EYE CONTACT	SKIN CONTACT	SKIN ABSORPTION
			YES	YES	YES	
	EFFECTS OF EXPOSURE (ACUTE) Irritation in respiratory tract, irritation or burns on skin.					
	Product is mildly corrosive and is not a health hazard if standard precautions are observed.					
	EFFECTS OF EXPOSURE (CHRONIC)					
	EXPOSURE LIMITS					
	SENSITIZATION TO PRODUCT					
	CARCINOGENICITY					
	OTHER TOXICOLOGICAL EFFECTS					
	EMERGENCY AND FIRST AID PROCEDURES					
	Eyes: flush with large amounts of water for 10 minutes while lifting eyelids. Call physician.					
	Skin: flush with water.					
Ingestion: If patient is conscious, give large amounts of water. Do not induce vomiting. Call physician.						
<b>PREVENTIVE MEASURES</b>	RESPIRATORY PROTECTION Use in ventilated area.					
	VENTILATION	LOCAL EXHAUST		SPECIAL		
		MECHANICAL (GENERAL)		OTHER		
	HAND PROTECTION			EYE PROTECTION safety goggles		
	PROCEDURES TO BE FOLLOWED IN CASE OF LEAK OR SPILL Dilute with large amounts of water. Soda ash or slaked lime may be added to neutralize acid.					
	WASTE DISPOSAL METHOD Neutralize (e.g. with soda ash or slaked lime), add to excess water and wash down drain with running water.					
	HANDLING PROCEDURES AND EQUIPMENT Emergency eyewash should be available.					
	NFPA Ratings: Health 1, Flammability: 0, Reactivity 0, Special None					
	STORAGE REQUIREMENTS Keep separate from oxidizers.					
	SPECIAL SHIPPING INFORMATION					
<b>PREPARATION</b>	PREPARED BY Peter Bakker		APPROVED BY Peter Bakker			
	TITLE		TITLE		TELEPHONE	
			Chemistry Manager		(519) 941-8161	
		<i>Peter Bakker</i>		DATE		
				November 5, 2009		
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