

MATERIAL SAFETY DATA SHEET

IDENTIFICATION & USE	TYPE OF PRODUCT Electrode Renew solution for Glass pH Electrode		CHEMICAL FAMILY organic acid/salt solution, dilute			
	PRODUCT NUMBER A1100092		FORMULA			
	MANUFACTURER'S NAME AND ADDRESS IC CONTROLSTM		PRODUCT USE			
	29 Centennial Rd.		EMERGENCY TELEPHONE NO. IC Controls: (519)941-8161			
	Orangeville, Ont. L9W 1R1		Poison Info Centre: 1 800 268-9017			
HAZARDOUS INGREDIENTS	CONTAINER SIZE AND TYPE polyethylene bottle		USE AS RECEIVED	YES		
	SHIPPING NAME not regulated (DOT/IATA/TDGR)		CLASS			
	PIN	WHMIS Classification not regulated	PACKING GROUP			
	CONCENTRATION*	HAZARDOUS INGREDIENTS	CHEMICAL NAMES	LD ₅₀ mg/kg	LC ₅₀ **	CAS REGISTRY NO.
	1 < 6.0		Acetic Acid	3310 mg/kg		64-19-7
1 < 0.5		Sodium Fluoride	52 mg/kg		7681-49-4	
			ORL-RAT			
1 > 93		deionized water			7732-18-5	
* (1) % W/W (2) % V/V (3) % g/L			** SPECIES AND ROUTE			
PHYSICAL DATA	FREEZING POINT	-5 °C	MELTING POINT	N. Appl. °C	BOILING POINT	100 °C
	VAPOUR PRESSURE	Not Avail.	VAPOUR DENSITY (AIR = 1)	1	SPECIFIC GRAVITY (H ₂ O = 1)	1
	COEFFICIENT OF WATER/OIL DISTRIBUTION	Not Appl.	EVAPORATION RATE	Not Avail.	pH AT 25 °C	3.5
	ODOUR THRESHOLD	Not Avail.	PHYSICAL STATE	GAS LIQUID PASTE SOLID POWDER	X	
	ODOUR AND APPEARANCE clear, colorless liquid, smell of vinegar.					
FIRE & EXPLOSION DATA	FLASH POINT AND METHOD OF DETERMINATION Not flammable		FLAMMABLE LIMITS	L.E.L. N. A.	U.E.L. N. A.	
	CONDITIONS OF FLAMMABILITY					
	MEANS OF EXTINCTION CO₂, water, dry chemical, alcohol, as appropriate to surrounding fire conditions					
	HAZARDOUS COMBUSTION PRODUCTS small amount of HF gas if in contact with oxidizers.					
				AUTO IGNITION TEMP.	N. Appl.°C	
EXPLOSION DATA	SENSITIVITY TO MECHANICAL IMPACT none					
	SENSITIVITY TO STATIC DISCHARGE none					
SPECIAL FIRE FIGHTING PROCEDURES						

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REACTIVITY	STABLE	YES	CONDITIONS TO AVOID			PRODUCT NUMBER
	UNSTABLE					A1100092
	INCOMPATIBILITY—MATERIALS TO AVOID Strong caustics, strong oxidizers.					
	HAZARDOUS DECOMPOSITION PRODUCTS HF gas					
CONDITIONS OF REACTIVITY						
HEALTH HAZARD DATA	HAZARDOUS ROUTES OF ENTRY	INHALATION	INGESTION	EYE CONTACT	SKIN CONTACT	SKIN ABSORPTION
			YES	YES	YES	
	EFFECTS OF EXPOSURE (ACUTE) Irritating of skin or respiratory tract. Swallowing large amount may cause injury.					
	EFFECTS OF EXPOSURE (CHRONIC)					
	EXPOSURE LIMITS					
	SENSITIZATION TO PRODUCT					
	CARCINOGENICITY					
	OTHER TOXICOLOGICAL EFFECTS					
	EMERGENCY AND FIRST AID PROCEDURES					
	Eyes and skin: Immediately flush with a stream of running water. For eye contact occasionally lift eye lid when flushing. Wash skin with soap and water.					
Inhalation: remove to fresh air.						
Ingestion: Do not induce vomiting. Give large amounts of water if conscious. Get medical attention						
PREVENTIVE MEASURES	RESPIRATORY PROTECTION					
	VENTILATION	LOCAL EXHAUST			SPECIAL	
		MECHANICAL (GENERAL)			OTHER	
	HAND PROTECTION			EYE PROTECTION		
	protective gloves, impervious			protective goggles		
	PROCEDURES TO BE FOLLOWED IN CASE OF LEAK OR SPILL Wear protective clothing; ventilate area; follow procedure for waste disposal.					
	WASTE DISPOSAL METHOD If local laws permit, flush product into sewer with plenty of water.					
	HANDLING PROCEDURES AND EQUIPMENT Keep away from heat, strong oxidizers and caustic materials. Wear lab coat when handling.					
	Wash hands after handling. NFPA Rating: Health -1, Fire-0, Reactivity - 1, Specific - Acid.					
	STORAGE REQUIREMENTS					
SPECIAL SHIPPING INFORMATION						
PREPARATION	PREPARED BY Peter Bakker		APPROVED BY Peter Bakker		TELEPHONE	
	TITLE		TITLE		(519) 941-8161	
			<i>Peter Bakker</i>		DATE	
					November 5, 2009	
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