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MATERIAL SAFETY DATA SHEET

IDENTIFICATION & USE	TYPE OF PRODUCT O.R.P. Buffer, + 263 mV, PART B		CHEMICAL FAMILY Organic Salt Solution							
	PRODUCT NUMBER A1100083		FORMULA 1-O:C ₆ H ₄ -4-:O:C ₆ H ₄ 1,4-(OH) ₂							
	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							
	CONTAINER SIZE AND TYPE 2 mL capsules in 4 oz. brown bottle		USE AS RECEIVED	in sol'n						
HAZARDOUS INGREDIENTS	SHIPPING NAME Chemicals, N.O.S. (NON-REGULATED)		CLASS							
	PIN	WHMIS Classification D2: Other Toxic		PACKING GROUP						
	CONCENTRATION*	HAZARDOUS INGREDIENTS	CHEMICAL NAMES	LD ₅₀ mg/kg	LC ₅₀ **	CAS REGISTRY NO.				
	1 95-100	Quinhydrone		35 mg/kg		106-34-3				
				(IV-mouse)						
PHYSICAL DATA	FREEZING POINT		Not Appl.	MELTING POINT		172 °C	BOILING POINT		Not Appl.	
	VAPOUR PRESSURE		Not Appl.	VAPOUR DENSITY (AIR = 1)		7.6	SPECIFIC GRAVITY (H ₂ O = 1)		1.40	
	COEFFICIENT OF WATER/OIL DISTRIBUTION		Not Appl.	EVAPORATION RATE		Not Avail.	pH AT 25 °C		7 (in sol'n)	
	ODOUR THRESHOLD		Not Avail.	PHYSICAL STATE		GAS LIQUID PASTE SOLID POWDER		X		
	ODOUR AND APPEARANCE		Dark green crystals, metallic luster; odourless							
	FLASH POINT AND METHOD OF DETERMINATION		Not applicable		FLAMMABLE LIMITS		L.E.L.	N. A.		U.E.L.
FIRE & EXPLOSION DATA	CONDITIONS OF FLAMMABILITY		High temperatures can cause quinhydrone to decompose.							
	MEANS OF EXTINCTION		Use extinguishing media appropriate for surrounding fire.							
	HAZARDOUS COMBUSTION PRODUCTS									
			AUTO IGNITION TEMP.							
	EXPLOSION DATA		SENSITIVITY TO MECHANICAL IMPACT		none					
			SENSITIVITY TO STATIC DISCHARGE		none					
SPECIAL FIRE FIGHTING PROCEDURES		Air mask should be worn								

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REACTIVITY	STABLE	YES	CONDITIONS TO AVOID none documented			PRODUCT NUMBER A1100083
	UNSTABLE					
	INCOMPATIBILITY — MATERIALS TO AVOID Strong oxidizers					
	HAZARDOUS DECOMPOSITION PRODUCTS Thermal decomposition or burning may produce carbon monoxide and/or carbon dioxide.					
CONDITIONS OF REACTIVITY						
HEALTH HAZARD DATA	HAZARDOUS ROUTES OF ENTRY	INHALATION YES	INGESTION YES	EYE CONTACT YES	SKIN CONTACT YES	SKIN ABSORPTION YES
	EFFECTS OF EXPOSURE (ACUTE) Inhalation: Exposure to high dust concentrations causes irritation to upper respiratory tract.					
	Eyes and skin: irritation.					
	EFFECTS OF EXPOSURE (CHRONIC) Repeated exposure to the dust may result in corneal damage.					
	EXPOSURE LIMITS					
	SENSITIZATION TO PRODUCT					
	CARCINOGENICITY					
	OTHER TOXICOLOGICAL EFFECTS					
	EMERGENCY AND FIRST AID PROCEDURES					
	Ingestion: immediately induce vomiting if patient is conscious.					
	Eyes: flush immediately with plenty of water for at least 15 minutes and get medical attention.					
	Skin: flush with plenty of water.					
Inhalation: remove patient to fresh air.						
PREVENTIVE MEASURES	RESPIRATORY PROTECTION Use in well-ventilated area. Use an approved dust respirator if ventilation is inadequate.					
	VENTILATION	LOCAL EXHAUST to reduce exposure, or adequate general			SPECIAL Not Applicable	
		MECHANICAL (GENERAL) Not Applicable			OTHER Not Applicable	
	HAND PROTECTION poly gloves			EYE PROTECTION safety glasses		
	PROCEDURES TO BE FOLLOWED IN CASE OF LEAK OR SPILL Wearing suitable protective clothing, sweep material onto paper. Place in dry container and cover. Flush spill area with water					
	WASTE DISPOSAL METHOD Dispose in accordance with all applicable federal, state/provincial, and local environmental regulations. Disposal in approved chemical incinerator is appropriate if available.					
	HANDLING PROCEDURES AND EQUIPMENT As required to prevent skin contact.					
	NFPA Rating: Scale (0-4): Health - 2 (moderate), Fire - 1 (slight), Reactivity - 1, Contact - 1					
	STORAGE REQUIREMENTS Quinhydrone is photosensitive and must remain in dark container to preserve product integrity..					
	SPECIAL SHIPPING INFORMATION					
PREPARATION	PREPARED BY Peter Bakker		APPROVED BY Peter Bakker			
	TITLE t		TITLE Chemistry Manager		TELEPHONE (519) 941-8161	
			<i>Peter Bakker</i>		DATE November 5, 2009	
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