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MATERIAL SAFETY DATA SHEET

IDENTIFICATION & USE	TYPE OF PRODUCT D.O. electrode filling solution		CHEMICAL FAMILY inorganic caustic solution			
	PRODUCT NUMBER A1100215		FORMULA KOH			
	MANUFACTURER'S NAME AND ADDRESS IC CONTROLS		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 30 mL polyethylene bottle		USE AS RECEIVED	YES		
HAZARDOUS INGREDIENTS	SHIPPING NAME not regulated		CLASS			
	PIN	WHMIS Classification E, Corrosive material	PACKING GROUP			
	CONCENTRATION*	HAZARDOUS INGREDIENTS	CHEMICAL NAMES	LD ₅₀ mg/kg	LC ₅₀ **	CAS REGISTRY NO.
	1 < 5		Potassium Hydroxide	N.Avail.	7500 mg	1310-58-3
					(rat, oral)	
PHYSICAL DATA	FREEZING POINT	-20 °C	MELTING POINT	N. Appl. °C	BOILING POINT	105 °C
	VAPOUR PRESSURE	N. Avail.	VAPOUR DENSITY (AIR = 1)	N. Avail.	SPECIFIC GRAVITY (H ₂ O = 1)	1.1
	COEFFICIENT OF WATER/OIL DISTRIBUTION	Not Appl.	EVAPORATION RATE	Not Avail.	pH AT 25 °C	13
	ODOUR THRESHOLD	Not Avail.	PHYSICAL STATE	GAS LIQUID PASTE SOLID POWDER	X	
	ODOUR AND APPEARANCE Clear colourless solution, odourless.					
FIRE & EXPLOSION DATA	FLASH POINT AND METHOD OF DETERMINATION not combustible		FLAMMABLE LIMITS	L.E.L. N. A.	U.E.L. N. A.	
	CONDITIONS OF FLAMMABILITY					
	MEANS OF EXTINCTION Use an extinguisher appropriate to the surrounding material that is burning.					
	HAZARDOUS COMBUSTION PRODUCTS					
					AUTO IGNITION TEMP.	°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				A1100215 D.O. filling solution	
	INCOMPATIBILITY—MATERIALS TO AVOID strong acids, maleic anhydride, nitro organic compounds, phosphorus					
	HAZARDOUS DECOMPOSITION PRODUCTS May release toxic fumes of potassium oxide					
CONDITIONS OF REACTIVITY						
HEALTH HAZARD DATA	HAZARDOUS ROUTES OF ENTRY	INHALATION	INGESTION	EYE CONTACT	SKIN CONTACT	SKIN ABSORPTION
		YES	YES	YES	YES	
	EFFECTS OF EXPOSURE (ACUTE) Irritation or corrosion of skin. Inhalation of mist may be irritating to the nose, throat and upper respiratory tract. Eye contact causes KOH to react with the protein and moisture in the eye.					
	EFFECTS OF EXPOSURE (CHRONIC) Bronchial irritant, coughing, pneumonia. Extensive skin contact may cause dermatitis.					
	EXPOSURE LIMITS					
	SENSITIZATION TO PRODUCT					
	CARCINOGENICITY					
	OTHER TOXICOLOGICAL EFFECTS					
	EMERGENCY AND FIRST AID PROCEDURES					
	Unless contact has been slight, get medical attention. Remove contaminated clothing. Eyes: irrigate with water for at least 15 minutes while lifting eyelids. Skin: wash with large amounts of water and soap while removing affected clothing. Ingestion: rinse mouth thoroughly with water. Do not induce vomiting. Have person drink plenty of water to dilute. Never give anything by mouth if person is rapidly losing consciousness, or is unconscious or convulsing. Give artificial respiration or perform CPR if necessary.					
PREVENTIVE MEASURES	RESPIRATORY PROTECTION					
	VENTILATION	LOCAL EXHAUST to meet exposure limits		SPECIAL Not Applicable		
		MECHANICAL (GENERAL) Not Applicable		OTHER Not Applicable		
	HAND PROTECTION impervious gloves		EYE PROTECTION splash-proof safety goggles			
	PROCEDURES TO BE FOLLOWED IN CASE OF LEAK OR SPILL Ventilate area, wear impervious gloves, face shield. Prevent skin contact. Neutralize with HCl, flush resulting KCl down drain. Wash site of spillage with water and detergent.					
	WASTE DISPOSAL METHOD Follow all federal, provincial and local regulations for disposal.					
	HANDLING PROCEDURES AND EQUIPMENT Emergency eyewash should be available. Handle with care to avoid direct skin or eye contact.					
	STORAGE REQUIREMENTS Store away from materials which react violently with potassium hydroxide.					
	SPECIAL SHIPPING INFORMATION					
	PREPARATION	PREPARED BY		APPROVED BY		
		Peter Bakker				
TITLE		TITLE		TELEPHONE		
		Chemistry Manager		(519) 941-8161		
		<i>Peter Bakker</i>		DATE		
				November 5, 2009		
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