

29 Centennial Road, Orangeville, ON, L9W 1R1 Phone: (519) 941-8161 Fax: (519) 941-8164
Toll Free (North America) 1-800-265-9161 e-mail: sales@iccontrols.com website: www.iccontrols.com

MATERIAL SAFETY DATA SHEET

IDENTIFICATION & USE	TYPE OF PRODUCT 13.00 pH buffer		CHEMICAL FAMILY inorganic solution					
	PRODUCT NUMBER A1100069		FORMULA NaOH					
	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 polyethylene bottle		USE AS RECEIVED	YES				
SHIPPING NAME Sodium Hydroxide, solution		CLASS	8 (9.2)					
PIN 1824	WHMIS Classification Class E — corrosive material		PACKING GROUP	II				
HAZARDOUS INGREDIENTS	CONCENTRATION*	HAZARDOUS	INGREDIENTS	CHEMICAL NAMES	LD ₅₀ mg/kg	LC ₅₀ **	CAS REGISTRY NO.	
	1 6			Sodium Hydroxide			1310-73-2	
PHYSICAL DATA	FREEZING POINT	-20 °C	MELTING POINT	N. Avail. °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.							
	FLASH POINT AND METHOD OF DETERMINATION Not combustible.							
FIRE & EXPLOSION DATA	CONDITIONS OF FLAMMABILITY		FLAMMABLE LIMITS	L.E.L.	N. A.		U.E.L.	
	MEANS OF EXTINCTION any							
	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				A1100069	
	INCOMPATIBILITY—MATERIALS TO AVOID Acids, flammable liquid, organic halogen compounds.					
	HAZARDOUS DECOMPOSITION PRODUCTS					
CONDITIONS OF REACTIVITY						
HEALTH HAZARD DATA	HAZARDOUS ROUTES OF ENTRY	INHALATION	INGESTION	EYE CONTACT	SKIN CONTACT	SKIN ABSORPTION
		NO	YES	YES	YES	
	EFFECTS OF EXPOSURE (ACUTE) Irritation or corrosion of skin. Large doses: delayed pulmonary edema, small skin burns, corrosion of lips, mouth, tongue.					
	EFFECTS OF EXPOSURE (CHRONIC) Bronchial irritant, coughing, pneumonia.					
	EXPOSURE LIMITS					
	SENSITIZATION TO PRODUCT Not found on following lists: NTP/IARC MONOGRAPHS/OSHA regulations					
	CARCINOGENICITY					
	OTHER TOXICOLOGICAL EFFECTS					
	EMERGENCY AND FIRST AID PROCEDURES					
	Eyes: irrigate with water for at least 15 minutes while lifting eyelids.					
Skin: wash with large amounts of water and soap.						
Ingestion: give large amounts of water or milk.						
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 Wear impervious gloves, splash-proof goggles. Prevent skin contact. Neutralize with HCl.					
	Flush resulting NaCl to drain.					
	WASTE DISPOSAL METHOD as above					
	HANDLING PROCEDURES AND EQUIPMENT Emergency eyewash station should be available.					
	STORAGE REQUIREMENTS Store away from heat, acids, flammables. Keep container sealed to maintain product integrity.					
	SPECIAL SHIPPING INFORMATION					
PREPARATION	PREPARED BY Peter Bakker		APPROVED BY Peter Bakker			
	TITLE Chemistry Manager		TITLE Chemistry Manager		TELEPHONE (519) 941-8161	
			DATE November 5, 2009			
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