

Material Safety Data Sheet

Date of Preparation: April 12, 2013



EPOCAL Inc.
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Ontario K1G 3P5

Section 1: Product and Company Identification						
Product Identifier: EPOCAL Calibration Fluid						
24-hour Emergency Telephone No. 1-877-308-8293						
Section 2: Composition/ Information on Ingredients						
Product is a solution that is 98% deionized water						
Hazardous Ingredients	CAS No.	OSHA PEL	ACGIH TLV-TWA	MOL TWA/EV	% w/w	
Sodium Chloride	7647-14-5	not listed	not listed	not listed	0.55	
Sodium Bicarbonate	144-55-8	not listed	not listed	not listed	0.17	
Contains no hazardous ingredients with concentration greater than 1% or carcinogens with concentration greater than 0.1%						
Section 3: Hazards Identification						
Acute Health Effects: Liquid may irritate the eyes and skin. Not specifically toxic.					Carcinogenicity (of product):	
					NTP: not listed	
Chronic Health Effects: Chronic health effects are not expected with intended use of the product.					IARC: not listed	
					OSHA: not listed	
Section 4: First Aid Measures						
First Aid Procedures:						
Inhalation: Immediately remove to fresh air. Seek medical attention. Begin rescue breathing if breathing has stopped and CPR if heart action has stopped.						
Eyes: Remove contact lenses. Flush with cool water for at least fifteen minutes while holding eyelids open. Seek medical attention immediately.						
Skin: Remove and isolate contaminated clothing; wash skin immediately with soap and water. Flush with cool water for at least fifteen minutes. If irritation persists, seek medical attention.						
Ingestion: Give large quantities of water and induce vomiting. Do not make an unconscious person vomit. Seek medical attention.						
Section 5: Fire & Explosion Data						
Flammability Not flammable						
Extinguishing Media		not applicable		Class		not applicable
Flashpoint (°C) and Method			Upper Flammable Limit		Lower Flammable Limit	
not applicable			not applicable		not applicable	
Autoignition Temperature (°C)			Hazardous Combustion Products			
not applicable			not available			
Explosion Data		PPE		Sensitivity to Static Discharge		
not applicable		See Firefighting Procedures		not applicable		
NFPA Data (Estimated ratings)			Firefighting Procedure			
fire: 0 health: 1 reactivity: 0			not applicable			
Section 6: Accidental Release Measures						
Clean up liquid spills from product containers with an absorbent pad, paper towel, or equivalent. Wear lightweight nitrile gloves (or equivalent) and safety glasses. Dispose of waste according to federal, state, provincial and local environmental requirements.						
Section 7: Handling and Storage						
Avoid prolonged or repeated contact with skin or eyes. Store material away from temperature extremes.						

Section 8: Personal Protection/ Exposure Controls

Respiratory Protection: Not needed in normal use.

Protective Clothing: Wear gloves made from impervious materials such as nitrile, neoprene, or equivalent

Eye: Wear chemical safety glasses or goggles.

Ventilation: Local exhaust and mechanical ventilation, as required, to reduce exposure levels.

Hygienic Practices: After handling, wash hands thoroughly with soap and water before eating, drinking, smoking or using toilet facilities. Eye wash facilities and a safety shower should be available.

Section 9: Physical & Chemical Properties

Physical properties of this product are expected to be essentially similar to a salt water mixture.

Physical State Liquid	Odour and Appearance Colorless liquid			Odour Threshold (ppm) not available
Vapour Pressure (mmHg) not available	Vapour Density not available	Evap. Rate not available	Boiling Point (°C) not available	Freezing Point (°C) not available
pH 7.4	Specific Gravity (H₂O = 1) not available		Coeff. Water/Oil Dist. not available	% Volatile not available

Section 10: Stability and Reactivity

Stability: Stable under normal conditions of use and quantity.

Hazardous Polymerization: Will not normally occur.

Incompatibility: None determined.

Section 11: Toxicological Information

	LD50 of Ingredients (Specify Species)	LC50 of Ingredients (Specify Species)	TDL_o - Lowest published toxic dose	Routes of entry
Sodium Chloride	3 g/kg (rodent-rat)	>42 g/m ³ /1H (rodent-rat)	0.04 mg/kg (rodent-rabbit)	oral, inhalation, subcutaneous
Sodium Bicarbonate	3360 mg/kg (rodent-mouse)	>900 mg/m ³ (rodent-rat)	20 mg/kg/5D (human)	oral, inhalation

Section 12: Ecological Information

Ecological testing has not been reported for this product.

Section 13: Disposal Considerations

Typical releases will most likely be in the microlitre range. Dispose of container and unused contents in accordance with applicable federal, state, provincial or local regulations.

Section 14: Transport Information

Shipping Name: Not Regulated by DOT (US), TDG (Canada) or IATA

Section 15: Regulatory Information

This MSDS meets requirements of **OSHA:** 29 CFR 1910.1200

EPA: The ingredients in this product are listed on the TSCA inventory of chemical substances.

WHMIS: This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

Section 16: Other Information/Comments

This product has been classified according to the hazard criteria of the Canadian CPR (Controlled Products Regulations) and the MSDS contains all the information required by the CPR and according to ANSI Standard Z400.1-2004.

Comments:

Date prepared: April 12, 2013



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