





MATERIAL SAFETY DATA SHEET

WQ-BR

Section I. Product Identification

Product Name: 1000ppm Bromide standard solution (Br ⁻)	Catalog No. SD2004-MSDS	Effective Date 10/23/02
Hazardous Shipment Labeling: DOT None	IATA None	
Prepared by 	Title Quality Assurance Chemist	
Approved by 	Title Director Regulatory Matters	

Section II - Hazard Ingredients/Identity Information

Hazardous Components Specific Chemical Identity; Common Name(s)	CAS No.	%	OSHA PEL	ACGIH TLV	LD ₅₀
Sodium Bromide (NaBr)	7647-15-6	<1	None Listed	None Listed	3500 (ORL-RAT)
Deionized Water (H ₂ O)	7732-18-5	99	None Listed	None Listed	190,000 (IPR-MUS)

Section III - Physical/Chemical Characteristics

Boiling Point 750mm Hg	100°C	Freezing Point	0°C
Specific Gravity (H ₂ O = 1)	1	Vapor Pressure at	NA
pH at 25 °C	(5.5 - 8.0)	Solubility in water, % by wt at 25°C	Miscible
Volatiles, % by wt	99%	Evaporation Rate (Butyl Acetate = 1)	NA
Vapor Density (AIR = 1) NA			
Appearance and Odor Colorless, Odorless liquid			

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used) Not flammable	Flammable Limits	LEL NA	UEL NA
Extinguishing Media Water, CO ₂ , or dry chemical			
Special Fire Fighting Procedures NA			
Unusual Fire and Explosion Hazards None: this solution is non-flammable.			

Section V - Reactivity Data

Stability		Conditions to Avoid
Unstable	Stable X	None
Incompatibility (Materials to Avoid): Alkaloidal and metallic salts and acids.		
Hazardous Decomposition or Byproducts Heating to decomposition can emit toxic fumes of bromine.		
Hazardous Polymerization		Conditions to Avoid
May Occur	Will Not Occur X	None



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Section VI - Health Hazard Data

Route(s) of Entry:	Inhalation? No	Skin? No	Ingestion? Yes
Health Hazards (Acute and Chronic) This product is a low hazard for both chronic and acute exposure.			
Carcinogenicity: Not found on these lists.	NTP?	IARC Monographs?	OSHA Regulated?
Signs and Symptoms of Exposure Possible irritation of the skin if allowed to remain on skin for long periods of time.			
Medical Conditions Generally Aggravated by Exposure Causes stinging in an open cut or wound.			
Emergency and First Aid Procedures Skin and eyes - Wash off contact area with large amounts of water for 15 minutes. If ingested, induce vomiting. Consult a physician.			

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled	Dilute with water; vacuum up and set aside for waste disposal.
Waste Disposal Method	Consult Federal, State, and local laws when disposing of this product.
Precautions to be taken in Handling and Storing Store at room temperature and keep cap tightly sealed to protect product integrity. NFPA Rating: Scale (0-4); Health - 0, Fire - 0 Reactivity - 0, Specific - None.	
Other Precautions SARA Title III: Sodium Bromide does not appear on any of the SARA lists. Not found on Cal Prop 65 listing. Reported in EPA TSCA inventory.	

Section VIII - Control Measures

Respiratory Protection (Specify Type)	None		
Ventilation	Local Exhaust	None	Special None
	Mechanical (General)	None	Other None
Protective Gloves	Any	Eye Protection	Safety glasses
Other Protective Clothing or Equipment	Lab Coat		
Work/Hygienic Practices Emergency eyewash should be available. Wash hands after working with this product. No eating or drinking while working with this product.			