





# MATERIAL SAFETY DATA SHEET

## WQ-FL

### Section I. Product Identification

<b>Product Name:</b> 1000ppm Fluoride Standard solution (F)	<b>Catalog No.</b> SD2020-MSDS	<b>Effective Date</b> 10/25/02
<b>Hazardous Shipment Labeling:</b> DOT None	<b>IATA</b> None	
<b>Prepared by</b> 	<b>Title</b> Quality Assurance Chemist	
<b>Approved by</b> 	<b>Title</b> Director Regulatory Matters	

### Section II - Hazard Ingredients/Identity Information

Hazardous Components Specific Chemical Identity; Common Name(s)	CAS No.	%	OSHA PEL	ACGIH TLV	LD <sub>50</sub>
Sodium Fluoride, (NaF)	7681-49-4	<0.3	None Listed	None Listed	75 (ORL-RAT)
Deionized Water (H <sub>2</sub> O)	7732-18-5	99.7	None Listed	None Listed	190,000 (IPR-MUS)

### Section III - Physical/Chemical Characteristics

<b>Boiling Point 750mm Hg</b>	100°C	<b>Freezing Point</b>	0°C
<b>Specific Gravity (H<sub>2</sub>O = 1)</b>	1.0	<b>Vapor Pressure at</b>	NA
<b>pH at 25 °C</b>	(5.5 - 7.5)	<b>Solubility in water, % by wt at 25°C</b>	Miscible
<b>Volatiles, % by wt</b>	NA	<b>Evaporation Rate (Butyl Acetate = 1)</b>	NA
<b>Vapor Density (AIR = 1)</b> NA			
<b>Appearance and Odor</b> Clear, colorless, odorless solution			

### Section IV - Fire and Explosion Hazard Data

<b>Flash Point (Method Used)</b> Not flammable	<b>Flammable Limits</b>	<b>LEL</b> NA	<b>UEL</b> NA
<b>Extinguishing Media</b> Any			
<b>Special Fire Fighting Procedures</b> None, this solution is non-flammable.			
<b>Unusual Fire and Explosion Hazards</b> None			

### Section V - Reactivity Data

<b>Stability</b>	Unstable	Stable	X	<b>Conditions to Avoid</b>
				Suitable for all general storage.
<b>Incompatibility (Materials to Avoid):</b> Perchlorates (HClO <sub>4</sub> )				
<b>Hazardous Decomposition or Byproducts</b> Toxic fumes if heated to decomposition.				
<b>Hazardous Polymerization</b>			<b>Conditions to Avoid</b>	
May Occur	Will Not Occur	X	None	



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## Section VI - Health Hazard Data

<b>Route(s) of Entry:</b>	<b>Inhalation?</b> No	<b>Skin?</b> No	<b>Ingestion?</b> Yes
<b>Health Hazards (Acute and Chronic)</b> Because of the low concentration of salt (less than 1%), this product is not considered to be hazardous.			
<b>Carcinogenicity:</b> Not found on these lists.	<b>NTP?</b>	<b>IARC Monographs?</b>	<b>OSHA Regulated?</b>
<b>Signs and Symptoms of Exposure</b> Because of low concentration of salt (less than 1%), this product does not pose a serious acute or chronic hazard via skin or inhalation routes. Ingestion: In large doses (25-50 mg) may cause nausea, vomiting, diarrhea and CNS manifestation.			
<b>Medical Conditions Generally Aggravated by Exposure</b> Anorexia, anemia, asthma, bone disease.			
<b>Emergency and First Aid Procedures</b> 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

<b>Steps to Be Taken in Case Material is Released or Spilled</b> Cover with soda ash and neutralize with 6M HCl. Wash down drain with excess water. Observe all state, federal, and local laws.
<b>Waste Disposal Method</b> Observe all Federal, State and local laws when disposing of this product.
<b>Precautions to Be taken in Handling and Storing</b> NFPA Rating: Scale (0-4); Health - 1, Fire - 0, Reactivity - 0, Specific - None.
<b>Other Precautions</b> Keep solution sealed and at room temperature to insure quality. SARA TITLE III or Cal. Prop does not affect this product. 65: NaF is reported in EPA TSCA inventory.

## Section VIII - Control Measures

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