



## MATERIAL SAFETY DATA SHEET

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### Section I. PRODUCT IDENTIFICATION

<b>Product Name:</b> Solution, Chloride Standard, 0.1M as Cl, 1,000 ppm as Cl or 10 ppm as Cl	<b>Catalog No.</b> SD0CL1-xx, SD0CL2-xx, SD2011-xx, SD2012-xx, or SD2053-xx	<b>Effective Date:</b> 11 Jan, 2012
<b>Hazardous Shipment Labeling:</b>	<b>DOT:</b> None	<b>IATA:</b> None
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<b>Approved by:</b> Peter Cai	<b>Title:</b> <i>Director Regulatory Compliance</i>	

### Section II. HAZARDOUS INGREDIENTS/Identity Information

Hazardous Components*	CAS No.	%	OSHA PEL	ACGIH TLV	LD <sub>50</sub> mg/Kg
Specific Chemical Identity; Common Name(s)					
Sodium Chloride (NaCl)	7647-14-5	<2	None Listed	None Listed	3,000 (ORL-RAT)
Deionized Water (H <sub>2</sub> O)**	7732-18-5	>98	None Listed	None Listed	190,000 (IPR-MUS)

### Section III. PHYSICAL/CHEMICAL DATA AND CHARACTERISTICS

<b>Boiling Point at 760 mmHg</b>	101°C	<b>Freezing Point</b>	-1°C
<b>Specific Gravity (H<sub>2</sub>O = 1)</b>	1.03	<b>Vapor Pressure at 25°C</b>	NA
<b>pH at 25°C</b>	5 to 8	<b>Solubility in water, % by wt</b>	Miscible
<b>Volatiles, % by wt</b>	NA	<b>Evaporation Rate (B A = 1)</b>	NA
<b>Vapor Density (AIR = 1):</b> NA			
<b>Appearance and Odor:</b> Clear, colorless, and odorless liquid			

**Section IV. FIRE AND EXPLOSION HAZARD DATA**

<b>Flash Point (Method Used):</b> NA	<b>Auto-ignition Temperature:</b> NA	<b>Flammable Limits</b>	<b>Lower</b>	<b>Upper</b>
		In air, % by volume:	NA	NA
<b>Extinguishing Media:</b> Dry chemical, water, foam, or CO <sub>2</sub> Use media appropriate to surrounding fire conditions				
<b>Special Fire Fighting Procedures:</b> NONE, this solution is non-flammable. As in any fire, wear self-contained breathing apparatus pressure-demand and full protective gear.				
<b>Unusual Fire and Explosion Hazards:</b> NONE. This product will not burn or explode.				

\*Chemicals that are not classified as hazardous by U.S. OSHA guidelines (29 CFR Parts 1915.2 or 1916.2) will not necessarily be listed herein even though one or more may be in this product.

\*\* Non-hazardous component

NA = Not available/Not applicable



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**Section V. REACTIVIY DATA**

<b>Stability:</b> Unstable      Stable X	<b>Conditions to Avoid:</b> Lithium, bromine trifluoride, water incompatibles, or extreme Temperatures
<b>Incompatibility (Materials to Avoid):</b> Bromine Trifluoride, Magnesium, sodium metals, or strong mineral acids and bases	
<b>Hazardous Decomposition or Byproducts:</b> When heated above 801°C (1474°F) it emits toxic fumes of chloride and sodium oxide.	
<b>Hazardous Polymerization:</b> May Occur      Will Not Occur X	<b>Conditions to Avoid:</b> Extreme Temperatures

**Section VI. HEALTH HAZARD DATA**

<b>Route(s) of Entry:</b> Inhalation? YES      Skin? YES      Ingestion? YES
<b>Health Hazards (Acute and Chronic):</b> May cause irritation in contact areas. May cause eye irritation. Ingestion of very large doses may cause nausea, vomiting, or acidosis.
<b>Carcinogenicity:</b> NTP?      IARC Monographs?      OSHA Regulated?      Not found on these lists
<b>Signs and Symptoms of Exposure:</b> May cause irritations to eyes, skin, mucous membranes or digestive tract. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
<b>Medical Conditions Generally Aggravated by Exposure:</b> May cause eye irritation, may be harmful or cause irritation if swallowed, inhaled, or allowed to come in contact with the skin. Will sting in an open cut.
<b>Emergency and First Aid Procedures:</b> <b>Eye Contact:</b> Immediately flush eyes with copious amounts of water, separate eyelid from eye. Call physician if irritation develops. <b>Skin Contact:</b> Wash effected area with soap and copious amounts of water. Call physician if irritation develops. <b>Ingestion:</b> Wash out mouth if person is conscious. Give 1 to 2 glasses of water. Call physician if you feel unwell. <b>Inhalation:</b> Remove to fresh air, if not breathing give artificial respiration, if breathing is difficult give oxygen. Call physician if you feel unwell.

**Section VII. PRECAUTIONS FOR SAFE HANDLING AND USE**

<b>Steps to Be Taken in Case Material is Released or Spilled:</b> Clean up then dispose of properly according to local laws. Observe all Federal, State and Local laws when disposing of this product.
<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> Avoid contact with eyes. Wash hands thoroughly after use.

NFPA Rating: Scale (0-4): Health – 1, Fire – 0, Reactivity – 0, Specific – None.
<b>Other Precautions:</b> NONE. The solid used to make this solution is found on the TSCA list and on the SARA 311/312 list and is listed as Acute: yes, Chronic: no, Fire: no, Pressure: no, Reactivity: no.

**Section VIII. CONTROL MEASURES**

<b>Respiratory Protection (<i>Specify Type</i>)</b> Wear appropriate respirator if ventilation is inadequate		
<b>Ventilation</b>	<b>Local Exhaust:</b> NONE	<b>Special:</b> NONE
<b>Ventilation</b>	<b>Mechanical (<i>General</i>):</b> NONE	<b>Other:</b> NONE
<b>Protective Gloves:</b> Disposable latex gloves or similar	<b>Eye Protection:</b> Safety Glasses with top and side shields	
<b>Other Protective Clothing or Equipment:</b> Eye wash station should be available. Wear protective garments if sensitive skin.		
<b>Work/Hygienic Practices:</b> No eating or drinking in work area. Wash hands after working with this product.		

*Liability is expressly disclaimed for any loss or injury arising out of the use of this information or the use of this product or any materials designated. Safe use of the materials is the responsibility of the user.*

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