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February 7, 2013

## MATERIAL SAFETY DATA SHEET

### Section One: Identity

Plant Name: Aquarion® AQ120 Buffered Saline Solution

Other Names: N/A

Ingredients: Sodium Chloride, Sodium Borate, Boric Acid, Demineralized (Deionized) Water, and Hydrosep® (Chlorhexidine Digluconate Solution).

### Section Two: Hazardous Ingredients

Ingredient Name	Potential Hazard	Hazard Rating 0-4	
Sodium Chloride @ 0.6%	None when used as directed. Mild irritation/dehydration may occur on contact with large amounts of evaporated or condensed product. Inhalation danger on thermal decomposition of concentrated/evaporated product.	Health	0
Boric Acid @ 0.3%	None when used as directed. Mild irritation may occur on contact with large amounts of evaporated or condensed product. Inhalation danger on thermal decomposition of concentrated/evaporated product.	Health	0
Sodium Tetraborate @ 0.05%	None when used as directed. Mild irritation may occur on contact with large amounts of evaporated or condensed product. Inhalation danger on thermal decomposition of concentrated/evaporated product.	Health	0
Chlorhexidine Digluconate Solution CAS 18472-51-0 @ 1 ppm C <sub>22</sub> H <sub>30</sub> Cl <sub>2</sub> N <sub>10</sub> · 2C <sub>6</sub> H <sub>12</sub> O <sub>7</sub> UN 3082, Class 9, Packing group III	None when used as directed. Mild irritation may occur on contact with large amounts of evaporated or condensed product. Inhalation danger on thermal decomposition of concentrated/evaporated product.	Health	0

### Section Three: Physical & Chemical Characteristics

Boiling Point: 98° C

Percent Volatile: N/A

Solubility In Water: Soluble

Specific Gravity: 1.04 - 1.08

Vapor Density: N/A

Reactivity In Water: N/A

Vapor Pressure: N/A

Evaporation Rate: same as water

Appearance & Odor: clear, odorless solution

Flash Point: N/A

Flammable Limit In Air: not flammable at any level

Extinguisher Media: Foam, Dry Chemical, CO<sub>2</sub>, Water Fog

Special Fire-Fighting Procedures: protect from steam exposure; must wear MSHA/NIOSH approved self-contained breathing apparatus

Auto-Ignition Temperature: N/A (over 99% water)

Unusual Fire & Explosion Hazards: Thermal decomposition may produce toxic fumes of ammonia, hydrogen chloride, and oxides of carbon and nitrogen as well as sodium and chlorine fumes.

### Section Four: Physical Hazards

Stability: Stable

Conditions & Materials To Avoid: Long-term storage over 37° C; Short-term storage over 104° C

Hazardous Decomposition Products: Para-Chloroaniline

Hazardous Polymerization Probability: Will Not Occur

Avoid If Decomposed Or Polymerized: Yes

#### **Section Five: Health Hazards**

Safe Frequency & Method Of Use: Repeated use has not been shown to be harmful.

Signs & Symptoms of Overexposure (Acute Overexposure): None known

Signs & Symptoms of Overexposure (Chronic Overexposure): Skin and eye irritation or dermatitis

Medical Conditions Generally Aggravated By Exposure: Dermatitis; Hazardous to middle ear with perforated ear drum (tympanic membrane).

Contains Carcinogens Or Possible Carcinogens: No

FDA Monograph: No

Emergency & First Aid Procedures (Acute Overexposure)

1. Inhalation (mist): Remove to fresh air. If irritation occurs and persists, get medical attention.
2. Eyes: No treatment necessary.
3. Skin: No treatment necessary.
4. Ingestion: No treatment necessary.

#### **Section Six: Special Protection Information**

Respiratory Protection: None needed

Ventilation

1. Local Exhaust: OK
2. Mechanical: OK
3. Special: None needed

Protective Clothing & Equipment: None needed

#### **Section Seven: Special Precautions & Spill/Leak Procedures**

Precautions To Be Taken In Handling & Storage: Handle with care.

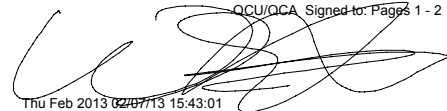
Other Precautions: None needed

Steps To Be Taken In Case Material Is Released Or Spilled: Flush with water.

Waste Disposal Methods: Flush with water.

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OCU/QCA Signed to: Pages 1 - 2



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