SECTION 1: IDENTIFICATION

According to OSHA HazCom Std 29 CFR 1910.1200 (b)(2): "This section applies to any chemical which is known to be present in the workplace in such a manner that employees may be exposed under normal conditions of use or in a foreseeable emergency."

1.1 Product Identifier

Product Name ORP Standard Solution
Substance Name Aqueous Electrolyte Solution

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Standardizing ORP electrodes.
Uses advised against (if applicable): Not applicable; use as directed.
Reasons why uses advised against (if applicable): Not applicable.

1.3 Details of the Supplier of the Safety Data Sheet

Manufacturer/Supplier: Foxboro by Schneider Electric
Street address: 38 Neponset Avenue
City, State Zip Code: Foxborough, MA 02035
Country: USA
Telephone number: (508) 549-2424

Name of Importer: Not applicable.
Address of Importer: Not applicable.

1.4 Emergency Phone: **CHEMTEL phone: +1 (800) 255-3924**

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture:

Not classified.

2.2 Label elements

None.

Signal Word
None.

Hazard Statements
None.

Precautionary statements
None.

2.3 Other Hazards

Other hazards which do not result in classification

Chronic exposure: iodism, hypersensitivity, serum sickness, conjunctivitis, hemosiderosis in liver, kidney and spleen. Fetal damage or death may occur in pregnant women from ingestion of iodides.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance

INGREDIENT	CAS NO.	% WT
Water	7732-18-5	94.7
Potassium Iodide	7681-11-0	4
Iodine	7553-56-2	1.3

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General Advice
If symptoms appear, call a physician. Show this safety data sheet to the doctor in attendance.

Eye contact
Immediately flush eyes with large amounts of water for at least 20 minutes, while holding eyelids open. Obtain medical attention immediately, as a precaution.

Skin contact
Wash exposed skin areas with soap and water. If irritation exists, obtain medical attention. Remove contaminated clothing. Wash contaminated clothing before reuse.

Inhalation
If symptoms appear, call a physician. Show this safety data sheet to the doctor in attendance.

Ingestion
If symptoms appear, call a physician. Show this safety data sheet to the doctor in attendance.

Have conscious person drink milk, absorb iodine with starch solution (15 g cornstarch or flour to 500 ml water). Give milk every 15 minutes to relieve irritation. Call a physician immediately. Never give anything by mouth to an unconscious or convulsing person.

4.2 Most important symptoms and effects, both acute and delayed
None identified.

4.3 Indication of any immediate medical attention and special treatment needed
Consult a physician.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media
Suitable extinguishing media
Dry chemical, CO2, water spray, or foam.

Unsuitable extinguishing media
None identified.

5.2 Special hazards arising from the substance or mixture
None identified.

5.3 Advice for firefighters
Avoid contact with exposed skin and eyes.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Avoid contact with exposed skin and eyes.

6.2 Environmental precautions
None identified.

6.3 Methods and material for containment and cleaning up
Absorb with inert absorbent (sand, diatomaceous earth) and scoop into labeled disposal container.

6.4 Reference to other sections
See Section 8.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with eyes, skin, and clothing. Avoid breathing mist. Wash throughly after handling. Store in closed containers.

7.2 Conditions for safe storage
Store in closed containers at room temperature, under dry conditions.

7.3 Specific end uses(s)
See Section 1.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure Limit value (OELs):	Iodine ACGIH TLV TWA: 0.01 ppm; 0.1 mg/m^3 Iodine ACGIH STEL: 0.1 ppm; 1 mg/m^3 Iodine OSHA STEL (CEILING): 0.1 ppm, 1 mg/m^3 Iodine NIOSH STEL (CEILING): 0.1 ppm; 1 mg/m^3
Derived No-Effect Levels (DNELs):	No data available.
Predicted No Effect Concentrations (PNECs):	No data available.

Work Hygiene Practices
Wash exposed skin.

8.2 Exposure controls
Appropriate engineering controls

No data available.

Protective measures
No data available. Use as directed.

Personal Protective Equipment

Eye and Face Protection: Use side-shielded safety glasses or goggles; do not wear contact lenses.
Skin Protection: Use impervious gloves and body-covering clothing; wash at mealtime and end of shift.
Hand protection: Use impervious gloves.
Other protection: No data available.

Respiratory Protection:
Provide general dilution or local exhaust vent.

Environmental Exposure Controls
See Section 6.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	Dark orange-brown solution.
Odor:	Strong odor.
Odor threshold:	No information available.
pH:	No information available.
Melting point:	No information available.
Initial boiling point and boiling range:	100° C
Flash point:	No information available.
Evaporation rate:	No information available.
Flammability (solid, gas):	No information available.
Lower flammability/explosive limits	No information available.
Upper flammability/explosive limits	No information available.
Vapour pressure:	24 mm Hg at 25°C
Vapour density:	No information available.
Relative density:	No information available.
Solubility(ies) in water:	100%
Partition coefficient, n-octanol/water:	No information available.
Autoignition temperature:	No information available.
Decomposition temperature:	No information available.
Viscosity:	No information available.
Explosive properties:	No information available.
Oxidising properties:	No information available.

9.2 Other information No additional information available.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity
See "Conditions to avoid."

10.2 Chemical stability
Stable.

10.3 Possibility of hazardous reactions
Hazardous polymerization will not occur.

10.4 Conditions to avoid
Potassium iodide reacts violently or explosively with many fluorides, perchlorates, alkali metals, strong oxidants, and diazonium salts. Iodine reacts violently or explosively with aluminum, active metals, acetylene, acetaldehyde and ammonium hydroxide.

10.5 Incompatible materials
See "Conditions to avoid."

10.6 Hazardous decomposition products
Thermal decomposition may produce very toxic fumes of hydrogen iodide and potassium oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Acute oral toxicity — Potassium iodide, oral LD50: 500-5000 mg/kg bw, human

Acute dermal toxicity — Iodine, dermal LD50: 1425 mg/kg bw, rabbit

Acute inhalation toxicity
No data available.

Skin corrosion/irritation — Potassium iodide, skin irritation: 500 mg, rabbit

Serious eye damage/irritation
No data available.
Respiratory or Skin sensitization
No data available.
Germ Cell Mutagenicity
No data available.
Carcinogenicity
No data available.
Reproductive toxicity
No data available.
Specific Target Organ Toxicity-Single Exposure (STOT-SE)
No data available.
Specific Target Organ Toxicity-Repeated Exposure (STOT-RE)
No data available.
Aspiration hazard
No data available.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Acute toxicity to fish	No data available.
Acute toxicity to aquatic invertebrates	No data available.
Acute toxicity to algae	No data available.
Acute toxicity to other organisms	No data available.
Chronic toxicity to fish	No data available.
Chronic toxicity to aquatic invertebrates	No data available.
Chronic toxicity to algae	No data available.
Chronic toxicity to other organisms (bacteria)	No data available.

12.2 Persistence and degradability
No data available.

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow):	No data available.
Bioconcentration factor (BCF):	No data available.

12.4 Mobility in soil

Known or predicted distribution to environmental compartments:	No data available.
Surface tension:	No data available.
Adsorption/Desorption:	No data available.

12.5 Results of PBT and vPvB assessment
No data available.

12.6 Other adverse effects
No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
Waste material must be disposed of I/A/W Federal, State & Local environmental control regulations. Empty containers must be handled with care due to product residue. Decontaminate containers prior to disposal. Do not heat/cut empy container with electric or gas torch.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number
Not applicable; no known restrictions.

14.2 UN proper shipping name
Not applicable; no known restrictions.

14.3 Transport hazard class(es)
Not applicable; no known restrictions.

14.4 Packing group
Not applicable; no known restrictions.

14.5 Environmental hazards
Not applicable; no known restrictions.

14.6 Special precautions for users
Above applies only to containers over 119 gallons or 450 liters.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Not required; not intended to be carried in bulk tankers.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
US Toxic Substances Control Act (TSCA): This substance is not on the TSCA inventory.

15.2 Chemical safety assessment
No chemical safety assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: OTHER INFORMATION

SDS PREPARATION INFORMATION:

Date Generated:	October 15, 2014
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