

# Safety Data Sheet

## SECTION 1: Identification

### 1.1 Product Identifier

Trade Name: ORP Standard, +200 mV

Product Number: 57020

### 1.2 Recommend Use and Restrictions on Use

General Laboratory Reagent

### 1.3 Details of the Supplier of the Safety Data Sheet

Company: Pyxis Lab, Inc.  
1729 Majestic Drive Suite 5  
Lafayette, CO 80026

Telephone: 866-203-8397

### 1.4 Emergency Telephone Number (24 hours)

CHEMTREC (USA) 800-424-9300

## SECTION 2: Hazard(s) Identification

### 2.1 Classification of the Substance or Mixture (in accordance with OSHA HCS 29 CFR 1910.1200)

For the full text of the Hazard and Precautionary Statements listed below, see Section 16.

**This product is not categorized as hazardous in any GHS hazard class.**

### 2.2 GHS Label Elements

Pictograms:	None required
Signal Word:	None required
Hazard Statements:	None required
Precautionary Statements:	None required

### 2.3 WHMIS Classification

WHMIS classification is not included based on the recommended option (Option 4) found in the Canada Gazette Part II, Vol. 149, No.3, page 458

### 2.4 Hazards not Otherwise Classified or Covered by GHS

Data not available.

## SECTION 3: Composition / Information on Ingredients

### 3.1 Components of Substance or Mixture

Chemical Name	Formula	Molecular Weight	CAS Number	Weight%
Water	H <sub>2</sub> O	18.01 g/mol	7732-18-5	98.92%
Potassium Chloride	KCL	74.55 g/mol	7447-40-7	0.75%
Potassium Ferrocyanide Trihydrate	K <sub>4</sub> Fe(CN) <sub>6</sub> •3H <sub>2</sub> O	422.39 g/mol	14459-95-1	0.30%
Potassium Ferricyanide	K <sub>3</sub> Fe(CN) <sub>6</sub>	329.24 g/mol	13746-66-2	0.03%

## SECTION 4: First-Aid Measures

### 4.1 General First Aid Information.

Eye Contact: May cause slight irritation.

Inhalation: Not expected to require first aid. If necessary, remove to fresh air.

Skin Contact: May cause slight irritation.

Ingestion: Dilute with water or milk. Do not induce vomiting. Call a physician if necessary.

### 4.2 Most Important Symptoms and Effects, Acute and Delayed

Does not present any significant health hazards. Wash areas of contact with water. EYE CONTACT: May cause slight irritation. SKIN CONTACT: May cause slight irritation.

### 4.3 Medical Attention or Special Treatment Needed

Not expected to require special treatment

## SECTION 5: Fire—Fighting Measures

### 5.1 Extinguishing Media

Use any means suitable for extinguishing surrounding fire.

### 5.2 Specific Hazards Arising from the Substance or Mixture

Not considered to be a fire or explosion hazard.

### 5.3 Special Protective Equipment for Firefighters

Use protective clothing and breathing equipment

## SECTION 6: Accidental Release Measures

### 6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Wear appropriate PPE for the size and nature of the spill. As a general rule, wear safety glasses and gloves.

### 6.2 Cleanup and Containment Methods and Materials

Absorb with suitable material and treat as normal refuse. Small amounts of the liquid may be flushed to the drain with excess water. Always dispose of in accordance with local regulations. appropriate for the surrounding fire

## SECTION 7: Handling and Storage

### 7.1 Precautions for Safe Handling and Storage Conditions

As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage. Store in the refrigerator.

## SECTION 8: Exposure Controls / Personal Protection

### 8.2 Exposure Controls

Engineering Controls: No specific controls are needed. Normal room ventilation is adequate.

Respiratory Protection: Normal room ventilation is adequate.

Skin Protection: Chemical resistant gloves.

Eye Protection: Safety glasses or goggles.

### 8.3 Personal Protective Equipment

Normal room ventilation is adequate. Chemical resistant gloves. Safety glasses or goggles.

## SECTION 9: Physical and Chemical Properties

### 9.1 Basic Physical and Chemical Properties

Appearance:	Yellow-green liquid
Physical State:	Liquid
Odor:	Data not available.
Odor Threshold:	Data not available.
pH:	Data not available.
Melting/Freezing Point:	0.0°C 100°C - 100°C
Initial Boiling Point/Range:	Data not available.
Flash Point:	Data not available.
Evaporation Rate:	Data not available.
Flammability:	Data not available.
Flammability/Explosive Limits:	Data not available.
Vapor Pressure:	Data not available.
Vapor Density:	Data not available.
Relative Density:	1.0
Solubility:	Miscible
Partition Coefficient:	Data not available.
Auto-Ignition Temperature:	Data not available.
Decomposition Temperature:	Data not available.
Viscosity:	Data not available.
Explosive Properties:	Data not available.
Oxidizing Properties:	Data not available.

## SECTION 10: Stability and Reactivity

### 10.1 Reactivity and Chemical Stability

Stable under normal conditions of use and storage.

### 10.2 Possibility of Hazardous Reactions

Data not available.

### 10.3 Conditions to Avoid and Incompatible Materials

Acids, Bromine Trifluoride, Sodium Nitrate, ammonia, Chromium Trioxide, Chromic Anhydride, Cupric Nitrate.

### 10.4 Hazardous Decomposition Products

Will not occur.

## SECTION 11: Toxicological Information

### 11.1 Information on Toxicological Effects

Acute Toxicity - Oral Exposure: Not applicable.

Acute Toxicity - Dermal Exposure: Not applicable.

Acute Toxicity - Inhalation Exposure: Not applicable.

Acute Toxicity - Other Information: LD50, Oral Rat: (anhydrous Potassium Ferrocyanide) 6400 mg/kg, (Potassium Chloride) 2600 mg/kg; LD50, Oral, Mouse: (Potassium Ferricyanide) 2970 mg/kg, details of toxic effects not reported other than lethal dose value.

Skin Corrosion and Irritation: Not applicable.

Serious Eye Damage and Irritation: Not applicable.

Respiratory Sensitization: Not applicable.

Skin Sensitization: Not applicable.

Germ Cell Mutagenicity: Not applicable.

Carcinogenicity: Not applicable.

Reproductive Toxicity: Not applicable.

Specific Target Organ Toxicity from Single Exposure: Not applicable.

Specific Target Organ Toxicity from Repeated Exposure: Not applicable.

Aspiration Hazard: Not applicable.

Additional Toxicology Information: Data not available.

## SECTION 12: Ecological Information

### 12.1 Ecotoxicity

Not applicable.

### 12.2 Persistence and Degradability

Data not available.

### 12.3 Bioaccumulative Potential

Data not available.

### 12.4 Mobility in Soil

Data not available.

### 12.5 Other Adverse Ecological Effects

Data not available

## SECTION 13: Disposal Considerations

### 13.1 Waste Treatment Methods

Data not available

## SECTION 14: Transportation Information

### 14.1 Transportation by Land-Department of Transportation (DOT, United States of America)

Not regulated according to DOT Regulations.

## SECTION 15: Regulatory Information

### 15.1 Occupational Safety and Health Administration (OSHA) Hazards

Not listed.

### 15.2 Superfund Amendments and Reauthorization Act (SARA) 302 Extremely Hazardous Substances

Not listed.

### 15.3 Superfund Amendments and Reauthorization Act (SARA) 311/312 Hazardous Chemicals

Not listed.

### 15.4 Superfund Amendments and Reauthorization Act (SARA) 313 Toxic Release Inventory (TRI)

Potassium Ferricyanide (CAS # 13746-66-2): 1.0 % de minimis concentration (X+CN- where X = H+ or any other group where a formal dissociation can be made. Example: KCN or Ca(CN)<sub>2</sub>. Chemical Category N106)  
Potassium Ferrocyanide Trihydrate (CAS # 14459-95-1): 1.0 % de minimis concentration (X+CN- where X = H+ or any other group where a formal dissociation can be made. Example: KCN or Ca(CN)<sub>2</sub>. Chemical Category N106)

### 15.5 Massachusetts Right-to-Know Substance List

Not listed.

### 15.6 Pennsylvania Right-to-Know Hazardous Substances

Potassium Ferricyanide (CAS # 13746-66-2): Environmental hazard  
Potassium Ferricyanide (CAS # 13746-66-2): Present  
Potassium Ferrocyanide Trihydrate (CAS # 14459-95-1): Environmental hazard  
Potassium Ferrocyanide Trihydrate (CAS # 14459-95-1): Present  
Water (CAS # 7732-18-5): Present

### 15.7 New Jersey Worker and Community Right-to-Know Components

Potassium Ferricyanide (CAS # 13746-66-2): sn 2308  
Potassium Ferricyanide (CAS # 13746-66-2): SN 2308 500 lb TPQ (Category Code N106)  
Potassium Ferrocyanide Trihydrate (CAS # 14459-95-1): sn 2308  
Potassium Ferrocyanide Trihydrate (CAS # 14459-95-1): SN 2308 500 lb TPQ (Category Code N106)

### 15.8 California Proposition 65

Not listed.

### 15.9. Canada Domestic Substances List / Non-Domestic Substances List (DSL/NDSL)

Potassium Ferricyanide (CAS # 13746-66-2): Present (DSL)  
Potassium Ferrocyanide Trihydrate (CAS # 14459-95-1): Present (DSL)  
Potassium Chloride (CAS # 7447-40-7): Present (DSL)  
Water (CAS # 7732-18-5): Present (DSL)

### 15.10 United States of America Toxic Substances Control Act (TSCA) List

Potassium Ferricyanide (CAS # 13746-66-2): Present  
Potassium Ferrocyanide Trihydrate (CAS # 14459-95-1): Present  
Potassium Chloride (CAS # 7447-40-7): Present  
Water (CAS # 7732-18-5): Present

### 15.11 European Inventory of Existing Commercial Chemical Substances (EINECS), European List of Notified Chemical Substances (ELINCS), and No Longer Polymers (NLP)

Not listed.

## SECTION 16: Other Information

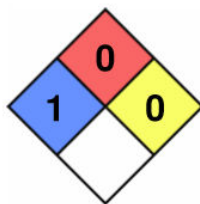
### 16.1 Full Text of Hazard Statements and Precautionary Statements

### 16.2 Miscellaneous Hazard Classes

Canadian Carcinogenicity Hazard Class: Not Applicable.  
Physical Hazards Not Otherwise Classified (PHNOC): Not Applicable.  
Health Hazards Not Otherwise Classified (HHNOC): Not Applicable.  
Biohazardous Infectious Materials Hazard Class: Not Applicable

### 16.3 National Fire Protection Association (NFPA) Rating

Health: 1  
Flammability: 0  
Reactivity: 0  
Special Hazard:



### 16.4 Document Revision

Last Revision Date: 7/31/2018

#### **Disclaimer**

When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration of its characteristics by concentration, evaporation, addition of other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied, is made and Pyxis Lab, Inc. assumes no legal responsibility or liability whatsoever resulting from its use.