

Section 1. Product and Company Identification

Item Number: s1832-1
 Common Name: Hydrochloric Acid 20% Aqueous
 Intended Use: In Vitro Diagnostic use. Laboratory Use Only
 IN CASE OF EMERGENCY, CONTACT: CHEMTREC (24HR) 800-424-9300

Manufacturer: Poly Scientific R&D Corp

70 Cleveland Ave
 Bay Shore, NY 11706
 631-586-0400
 polyrnd@polyrnd.com
 www.polyrnd.com

Section 2. Hazard Identification

290 Corrosive to Metals Cat 1
 314 Skin corrosion/irritation Cat 1A, B, C
 335 Specific target organ toxicity, single exposure: Respiratory tract irritation Cat 3



Danger

May be corrosive to metals. Causes severe skin burns and eye damage.
 May cause respiratory irritation.
 May cause damage to organs through prolonged or repeated exposure.

Do not breathe dust/fume/gas/mist/vapors/spray. Wash hands/skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Keep only in original container. Use only in well-ventilated area. In case of inadequate ventilation wear respiratory ventilation. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Absorb spillage to prevent material damage. Keep tightly closed and only in original container. Store locked up. Dispose of contents/container to an approved waste disposal plant.

Hazards not otherwise covered by GHS: None

Section 3. Composition Information

Exposure Limits(A blank value indicates no information available)

Component	CAS#	PEL(mg/m ³)	STEL(mg/m ³)	CEIL(mg/m ³)	Concentration Range
Hydrochloric Acid	7647-01-0	5.00		5.00	10-25%

Section 4. First Aid Measures

Eye Contact: Check for and remove contact lenses. Wash with large amounts of water for 15 minutes. Seek medical attention.
 Skin Contact: Remove contaminated clothing and shoes. Wash the affected area with large with soap and water. Seek medical attention
 Ingestion: Give two glasses of water to a conscious victim. Do not induce vomiting. Seek medical attention
 Inhalation: Move person to fresh air. If necessary give CPR: warning this could pose a risk of exposure to the rescue breather. Seek medical attention
 The most important known symptoms and effects are described in section 2 and/or section 11.

Section 5. Fire Fighting Measures

Extinguishing Media: Dry Chemical, Carbon Dioxide, water Spray or Alcohol Foam
 Special Fire and Explosion Remarks: N/A

Section 6. Accidental Release Measures

Spill Cleanup and Disposal Special: Caution! Corrosive! Neutralize alkaline material (soda ash) Take up spills with absorbent material
 Spill Cleanup: Take up spills with absorbant material and containerize for proper disposal. Use proper PPE as per section 8. Provide ventilation.

Section 7. Handling and Storage

Storage and Handling Special: N/A
 Storage and handling: Keep container tightly closed. Store in a cool, dry area and protect from physical damage

Section 8. Exposure Controls/Personal Protection

Personal Protective Equipment: Splash Goggles, Gloves, Vapor Respirator, Synthetic Apron
 This information is provided as a guide but proper PPE can only be determined by the end user and their situation.
 Engineering Controls: Provide local exhaust ventilation to keep the airborne concentrations of vapors below their respective threshold limit values. Ensure that eyewash stations and safety showers are local to the work-station.

Section 9. Physical and Chemical Properties

Appearance	clear colorless	Evaporation Rate	N/A	Water Soluable?	Yes
Odor	Strong	Upper Flammability Limit (%):	N/A	Volatile Percent	N/A
Odor Threshold	N/A	Lower Flammability Limit (%):	N/A	Partition Coefficient	n-octanol/water: N/A
pH	N/A	Specific Gravity (@ 20C)	N/A	Auto Ignition Temp.	N/A
Melting Point	N/A	Vapor Pressure (mm Hg)	N/A	Decomposition Temp	N/A
Boiling Point	N/A	Vapor Density (Air=1)	N/A	Viscosity	N/A
Flash Point (F) TCC	N/A	Relative Density	N/A		

Section 10. Stability and reactivity

Special Remarks on Stability: Stable

Special Remarks on Reactivity: N/A

Water Reactive: No

Section 11. Toxicological Information

Routes of Entry: Inhalation, Skin absorption, Ingestion

Animal Toxicity: Hydrochloric Acid: Acute Oral (LD50): 900 mg/kg (Rat); Sodium Acetate: N/A

Human Toxic Effects: Target Organs: Eyes, skin, respiratory system

Potential Acute Health Effects: Hazardous in case of eye, skin contact, inhalation

Potential Chronic Health Effects: Mutagenic for yeast and bacteria. Hydrochloric Acid: IARC Code 3

Section 12. Ecological Information

Ecological Information: N/A

Section 13. Disposal Considerations

Waste Disposal: Dispose of in accordance with local, state and federal laws.

Section 14. Transport Information

DOT Identification: UN1789; Hydrochloric acid: 8, II

Section 15. Regulatory Information

State Regulations: New York release reporting list: Hydrochloric Acid

Sara Section 311 Reporting

Component	CAS#	Acute	Chronic	Fire	Pressure	Reactive	SARA 302	SARA 313	CERCLA	RCRA
Hydrochloric Acid	7647-01-0	No	No	No	No	No	Yes	Yes	Yes	No

Section 16. Other Information

Review Date: 12/8/2015

Reviewed by: ddi

MSDS Group Id: 27

Notice: This MSDS applies only to the material as packaged. If the material is altered by any means it may pose risks not mentioned here.

It is the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use.

While this MSDS is based on reliable technical data, Poly Scientific R&D Corp. assumes no responsibility for the completeness or accuracy of the information contained herein.

Section 1. Product and Company Identification

Item Number: s1873-1
 Common Name: Potassium Ferrocyanide 10% Aqueous
 Intended Use: In Vitro Diagnostic use. Laboratory Use Only
 IN CASE OF EMERGENCY, CONTACT: CHEMTREC (24HR) 800-424-9300

Manufacturer: Poly Scientific R&D Corp

70 Cleveland Ave
 Bay Shore, NY 11706
 631-586-0400
 polyrnd@polyrnd.com
 www.polyrnd.com

Section 2. Hazard Identification

Harmful If Swallowed or Inhaled

Avoid breathing dust or vapor. May be irritating to eyes, skin, and respiratory system. Wear safety goggles and rubber gloves to avoid contact. Wash thoroughly after handling. Keep container tightly closed.

EFFECTS OF EXPOSURE: Ingestion may cause nausea and abdominal pain. Mild irritant to skin and eyes.

TARGET ORGANS: None.

FIRST AID: Call a physician at once!

For Fire: Use extinguishing media appropriate for surrounding fire.

For Spill: Eliminate ignition sources. Pick up with absorbent material and containerize for proper disposal.

Hazards not otherwise covered by GHS: None

Section 3. Composition Information

Exposure Limits(A blank value indicates no information available)

Component	CAS#	PEL(mg/m ³)	STEL(mg/m ³)	CEIL(mg/m ³)	Concentration Range
Potassium Ferrocyanide	14459-95-1				10-25%

Section 4. First Aid Measures

Eye Contact: Check for and remove contact lenses. Wash with large amounts of water for 15 minutes. Seek medical attention.

Skin Contact: Remove contaminated clothing and shoes. Wash the affected area with large with soap and water. Seek medical attention

Ingestion: Give two glasses of water to a conscious victim. Do not induce vomiting. Seek medical attention

Inhalation: Move person to fresh air. If necessary give CPR; warning this could pose a risk of exposure to the rescue breather. Seek medical attention

The most important known symptoms and effects are described in section 2 and/or section 11.

Section 5. Fire Fighting Measures

Extinguishing Media: Use extinguishing media appropriate to surrounding fire

Special Fire and Explosion Remarks: N/A

Section 6. Accidental Release Measures

Spill Cleanup and Disposal Special: Pick up spill with absorbent vermiculite

Spill Cleanup: Take up spills with absorbant material and containerize for proper disposal. Use proper PPE as per section 8. Provide ventilation.

Section 7. Handling and Storage

Storage and Handling Special: N/A

Storage and handling: Keep container tightly closed. Store in a cool, dry area and protect from physical damage

Section 8. Exposure Controls/Personal Protection

Personal Protective Equipment: N/A

This information is provided as a guide but proper PPE can only be determined by the end user and their situation.

Engineering Controls: Provide local exhaust ventilation to keep the airborne concentrations of vapors below their respective threshold limit values. Ensure that eyewash stations and safety showers are local to the work-station.

Section 9. Physical and Chemical Properties

Appearance	clear yellow	Evaporation Rate.....	N/A	Water Soluable?	Yes
Odor.....	N/A	Upper Flammability Limit (%):	N/A	Volatile Percent.....	N/A
Odor Threshold.....	N/A	Lower Flammability Limit (%):	N/A	Partition Coefficient.....	n-octanol/water: N/A
pH.....	N/A	Specific Gravity (@ 20C).....	N/A	Auto Ignition Temp.	N/A
Melting Point.....	N/A	Vapor Pressure (mm Hg)	N/A	Decomposition Temp.....	N/A
Boiling Point.....	N/A	Vapor Density (Air=1)	N/A	Viscosity	N/A
Flash Point (F) TCC.....	N/A	Relative Density.....	N/A		

Section 10. Stability and reactivity

Special Remarks on Stability: Stable

Special Remarks on Reactivity: N/A

Water Reactive: No

Section 11. Toxicological Information

Routes of Entry: Inhalation, Ingestion, Skin Absorption

Animal Toxicity: No LC50/LD50 data available

Human Toxic Effects: Target Organs: Skin

Potential Acute Health Effects: Hazardous in case of inhalation, eye contact, skin contact, ingestion

Potential Chronic Health Effects: N/A

Section 12. Ecological Information

Ecological Information: N/A

Section 13. Disposal Considerations

Waste Disposal: Dispose of in accordance with local, state and federal laws.

Section 14. Transport Information

DOT Identification: Non Hazardous

Section 15. Regulatory Information

State Regulations: New York release reporting list: NA

Sara Section 311 Reporting

Component	CAS#	Acute	Chronic	Fire	Pressure	Reactive	SARA 302	SARA 313	CERCLA	RCRA
Potassium Ferrocyanide	14459-95-1	No	No	No	No	No	No	No	No	No

Section 16. Other Information

Review Date: 12/17/2015

Reviewed by: ddi

MSDS Group Id: 100

Notice: This MSDS applies only to the material as packaged. If the material is altered by any means it may pose risks not mentioned here.

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Section 1. Product and Company Identification

Item Number: s248-1
 Common Name: Nuclear Fast Red Kernechtrot 0.1%
 Intended Use: In Vitro Diagnostic use. Laboratory Use Only
 IN CASE OF EMERGENCY, CONTACT: CHEMTREC (24HR) 800-424-9300

Manufacturer: Poly Scientific R&D Corp

70 Cleveland Ave
 Bay Shore, NY 11706
 631-586-0400
 polyrnd@polyrnd.com
 www.polyrnd.com

Section 2. Hazard Identification

315 Skin corrosion/irritation Cat 2
 319 Serious eye damage/eye irritation Cat 2A
 335 Specific target organ toxicity, single exposure: Respiratory tract irritation Cat 3

**Warning**

Causes skin irritation and serious eye irritation.
 May cause respiratory irritation.

Wash hands/skin thoroughly after handling. Use only in well-ventilated area. In case of inadequate ventilation wear respiratory ventilation. Wear protective gloves/ eye protection/ face protection/protective clothing. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/ attention. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER or doctor/ physician if you feel unwell. If eye irritation persists: Get medical advice/ attention. Take off contaminated clothing and wash before reuse. Store locked up. Dispose of contents/container to an approved waste disposal plant.

Hazards not otherwise covered by GHS: None

Section 3. Composition Information

Exposure Limits(A blank value indicates no information available)

Component	CAS#	PEL(mg/m ³)	STEL(mg/m ³)	CEIL(mg/m ³)	Concentration Range
Aluminum Sulfate	7784-31-8		2.00		0-5%

Section 4. First Aid Measures

Eye Contact: Check for and remove contact lenses. Wash with large amounts of water for 15 minutes. Seek medical attention.

Skin Contact: Remove contaminated clothing and shoes. Wash the affected area with large with soap and water. Seek medical attention

Ingestion: Give two glasses of water to a conscious victim. Do not induce vomiting. Seek medical attention

Inhalation: Move person to fresh air. If necessary give CPR: warning this could pose a risk of exposure to the rescue breather. Seek medical attention

The most important known symptoms and effects are described in section 2 and/or section 11.

Section 5. Fire Fighting Measures

Extinguishing Media : use Dry Chemical, Carbon Dioxide, Water Spray, Alcohol Foam

Special Fire and Explosion Remarks : N/A

Section 6. Accidental Release Measures

Spill Cleanup and Disposal Special : Pick up spill with absorbent vermiculite

Spill Cleanup: Take up spills with absorbant material and containerize for proper disposal. Use proper PPE as per section 8. Provide ventilation.

Section 7. Handling and Storage

Storage and Handling Special : N/A

Storage and handling: Keep container tightly closed. Store in a cool, dry area and protect from physical damage

Section 8. Exposure Controls/Personal Protection

Personal Protective Equipment : Safety Glasses, Gloves, Vapor Respirator

This information is provided as a guide but proper PPE can only be determined by the end user and their situation.

Engineering Controls: Provide local exhaust ventilation to keep the airborne concentrations of vapors below their respective threshold limit values. Ensure that eyewash stations and safety showers are local to the work-station.

Section 9. Physical and Chemical Properties

Appearance	clear reddish	Evaporation Rate	N/A	Water Soluable?	Yes
Odor	N/A	Upper Flammability Limit (%) ..	N/A	Volatile Percent	N/A
Odor Threshold	N/A	Lower Flammability Limit (%) ..	N/A	Partition Coefficient	n-octanol/water: N/A
pH.....	N/A	Specific Gravity (@ 20C)	N/A	Auto Ignition Temp	N/A
Melting Point	N/A	Vapor Pressure (mm Hg)	N/A	Decomposition Temp	N/A
Boiling Point	N/A	Vapor Density (Air=1)	N/A	Viscosity	N/A
Flash Point (F) TCC	N/A	Relative Density	N/A		

Section 10. Stability and reactivity

Special Remarks on Stability : Stable

Special Remarks on Reactivity : N/A

Water Reactive: No

Section 11. Toxicological Information

Routes of Entry: Inhalation, Skin Absorption, Ingestion

Animal Toxicity: Acute Oral (LD50) 6207 mg/kg (Mouse) Intravenous (LD50) 1735 mg/kg (Mouse)

Human Toxic Effects: Target Organs: Central Nervous System

Potential Acute Health Effects : Hazardous in case of inhalation, eye contact, skin contact, ingestion

Potential Chronic Health Effects : Repeated or prolonged exposure to the substance can produce target organs damage

Section 12. Ecological Information

Ecological Information : N/A

Section 13. Disposal Considerations

Waste Disposal : Dispose of in accordance with local, state and federal laws.

Section 14. Transport Information

DOT Identification : Non Hazardous

Section 15. Regulatory Information

State Regulations New York release reporting list: Aluminum Sulfate

Sara Section 311 Reporting

Component	CAS#	Acute	Chronic	Fire	Pressure	Reactive	SARA 302	SARA 313	CERCLA	RCRA
Aluminum Sulfate	7784-31-8	No	No	No	No	No	No	No	Yes	No

Section 16. Other Information

Review Date: 12/17/2015

Reviewed by: ddi

MSDS Group Id: 92

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