

Section 1. Product and Company Identification

Item Number: s2313-1
 Common Name: Citrate Buffer 0.01M pH 4.0
 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/m3)	STEL(mg/m3)	CEIL(mg/m3)	Concentration Range
Citrate Acid	77-92-9				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 neccessary 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 : Water Spray, Dry Chemical, or Carbon Dioxide

Special Fire and Explosion Remarks : N/A

Section 6. Accidental Release Measures

Spill Cleanup and Disposal Special : Pick up sill 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 : Safety Glasses, Gloves

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	Evaporation Rate	Water Soluable?
Odor	Upper Flammability Limit (%) ..	Volatile Percent
Odor Threshold	Lower Flammability Limit (%) ..	Partition Coefficient
pH.....	Specific Gravity (@ 20C)	Auto Ignition Temp.
Melting Point	Vapor Pressure (mm Hg)	Decomposition Temp
Boiling Point	Vapor Density (Air=1)	Viscosity
Flash Point (F) TCC	Relative Density	

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) 5040 mg/kg (Mouse); Acute Oral (LD50) 7000 mg/kg (Rabbit); Intraperitoneal (LD50) 961 mg/kg (Rat)

Human Toxic Effects: Target Organs: None

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

Sara Section 311 Reporting

Component	CAS#	Acute	Chronic	Fire	Pressure	Reactive	SARA 302	SARA 313	CERCLA	RCRA
Citrate Acid	77-92-9	No	No	No	No	No	No	No	No	No

Section 16. Other Information

Review Date: 12/17/2015

Reviewed by: ddi

MSDS Group Id: 32

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.