



SAFETY DATA SHEET

Revision Date: 25 January 2019; Rev. B

Section 1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

1.1. GHS Product Identifier:

CALRITE® STANDARD BUFFER SOLUTION 4.00 pH

Other means of identification:

S-0010

1.2. Recommended use of the chemical and restrictions on use

Recommended Use:

Use as a Laboratory Reagent.

1.3. Manufacturer Details:

RPC
1643 West Modern CT
Tucson, AZ 85705

1.4. Emergency phone number:

RPC
520-888-5551

Section 2. HAZARD(S) IDENTIFICATION

2.1. GHS Classification of the substance or mixture:

Not classified for physical or health hazards under GHS.

2.2. GHS label elements, including precautionary statements:

Hazard Pictograms:

None Required.

Signal word:

None Required.

Hazard statements:

None Required.

Precautionary statements:

If medical advice is needed, have product container or label at hand. Read label before each use.

2.3. Other Hazards not Otherwise Classified or Covered by GHS:

No additional information available.

Section 3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS -No	Weight %
Water, Deionized	7732-18-5	Balance
Potassium Acid Phthalate	877-24-7	0.95-1.05
Inert Dye	Proprietary	<0.1
Preservative	Proprietary	<0.5
Solvent	Proprietary	<0.5

Section 4. FIRST-AID MEASURES

4.1. Description of necessary first-aid measures:

General Advice:

Use first aid treatment according to the nature of the injury. Get medical attention immediately if symptoms occur.

Inhalation:

If inhaled, move to fresh air.

Skin Contact:

Rinse with water for at least 15 minutes.

Eye Contact:

Flush with water for at least 15 minutes.

Ingestion:

Dilute with water or milk. Get medical attention if necessary.

4.2. Most important symptoms/effects, acute and delayed:

Does not present any significant health hazard. Wash areas of contact with water. Eye Contact: May cause slight irritation. Skin Contact: May cause slight irritation.

4.3. Indication of immediate medical attention and special treatment needed:

Not expected to require special treatment. Treat symptomatically.

Section 5. FIRE-FIGHTING MEASURES

5.1. Suitable Extinguishing Media:

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2. Unsuitable Extinguishing Media:

No information available.

5.3. Specific Hazards Arising from the Chemical:

No information available.

5.4. Special Protective Equipment and Precautions for Fire-Fighters:

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment, and Emergency Procedures:

Use personal protective equipment. Refer to section 8. Evacuate personnel to safe areas.

6.2. Environmental Precautions:

Prevent further leakage if safe to do so. Dispose of in accordance with local regulations.

6.3. Methods and Materials for Containment and Cleaning Up:

Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

Section 7. HANDLING AND STORAGE

7.1. Precautions for Safe Handling:

Follow good hygiene procedures when handling chemical materials. Do not eat, drink, smoke, or use personal products when handling chemical substances. Comply with the instructions for use. Wear personal protective equipment. Avoid breathing dust/fumes/gas/mist/vapors/spray. Ensure adequate ventilation, especially in confined areas.

7.2. Conditions for Safe Storage, Including any Incompatibilities:

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in original container. Protect from freezing.

Section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control Parameters:

No applicable occupational exposure limits.

8.2. Appropriate Engineering Controls:

Emergency eye-wash fountains/stations should be available in the immediate vicinity of use/handling. Provide adequate ventilation.

8.3. Individual Protection Measures and Personal Protective Equipment:

Skin Protection:

Wear chemically resistant protective gloves. Wear suitable protective clothing.

Respiratory protection:

Not required under normal conditions of use. Use suitable respiratory protective device when aerosol or mist is formed.

Eye Protection:

Safety glasses with side protection or goggles. If splashes are likely to occur wear a face shield.

Hygiene Measures:

Handle in accordance with good industrial hygiene and safety practices. Keep away from food and beverages. Wash hands before breaks and at the end of work. Do not inhale gases/fumes/dust/mist/vapor/aerosols. Avoid contact with the eyes and skin.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance / Physical State:	Clear, red liquid.
Odor:	Odorless.
Odor Threshold:	No data available.
pH:	4.0
Melting point/freezing point:	0°C (32°F)
Initial boiling point and boiling range:	~ 100°C (212°F)
Flash Point:	No data available.
Evaporation Rate:	No data available.
Flammability (solid gas):	No data available.
Upper/lower Flammability / Explosive Limits:	No data available.
Vapor Pressure:	No data available.
Vapor Density:	No data available.
Relative Density:	No data available.
Solubility(ies):	Soluble.
Partition Coefficient: n-octanol/water:	No data available.
Auto-Ignition Temperature:	No data available.
Decomposition Temperature:	No data available.
Viscosity:	No data available

Section 10. STABILITY AND REACTIVITY

Reactivity:

Stable under normal conditions of use and storage.

Chemical Stability:

Stable under normal conditions of use and storage.

Possibility of Hazardous Reactions:

No data available.

Conditions to Avoid:

Extremes of temperature and direct sunlight.

Incompatible Materials:

Nitric acid.

Hazardous Decomposition Products:

Carbon oxides (CO, CO₂), Potassium oxides.

Section 11. TOXICOLOGICAL INFORMATION

11.1. Information on likely routes of exposure::

Inhalation:

No data available.

Ingestion:

No data available.

Skin:

No data available.

Eyes:

No data available.

11.2. Symptoms related to the physical, chemical and toxicological characteristics:

No data available.

11.3. Delayed and immediate effects as well as chronic effects from short and long term exposure:

Sensitization:

No data available.

Mutagenic effects:

No data available.

Carcinogenicity:

No data available.

Reproductive effects:

No data available.

STOT – single exposure:

No data available.

STOT – repeat exposure:

No data available.

11.4. Numerical Measures of Toxicity:

Acute Toxicity:

LD50, Oral, Rat: >3200mg/kg (Potassium Acid Phthalate), details of toxic effects not reported other than lethal dose value.

Section 12. ECOLOGICAL INFORMATION

Ecotoxicity:

No data available.

Persistence and degradability:

No data available.

Bioaccumulative potential:

No data available.

Mobility in soil:

No data available.

Other adverse effects:

No data available.

Section 13. DISPOSAL CONSIDERATIONS

13.1. Waste Treatment Methods:

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Section 14. TRANSPORT INFORMATION

UN Number:

Not regulated by DOT/IATA.

UN Proper Shipping Name:

Not regulated by DOT/IATA.

Transport Hazard Class(es):

Not regulated by DOT/IATA.

Environmental Hazards:

No data available.

Transport in Bulk, (Annex II):

Not regulated by DOT/IATA.

Special Precautions:

Not regulated by DOT/IATA.

Section 15. REGULATORY INFORMATION

15.1. Safety, Health and Environmental Regulations:

OSHA Hazards:

No known OSHA hazards.

TSCA Inventory Status:

All ingredients are listed.

SARA Section 302:

Not applicable.

SARA Section 311/312:

Not listed.

SARA Section 313:

Not applicable.

California Proposition 65:

Not listed.

Pennsylvania Right to Know Hazardous Substances:

Not listed.

RCRA Hazards:

Not applicable.

Section 16. OTHER INFORMATION

NFPA Ratings:



Health: 1
 Flammability: 0
 Instability: 0
 Specific Hazard: 0

HMIS Ratings:



Health: 1
 Flammability: 0
 Reactivity: 0
 PPE: A

SDS Origination Date: 21 May 2015
SDS Revision Date: 25 January 2019
SDS Rev: B
SDS Prepared By: RPC
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 Tucson, AZ 85705

Disclaimer: To the best of our knowledge, the information contained herein is accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results and assume no liability for damages incurred by the use of this material. The user should consider the health hazards and safety information contained as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

Abbreviations and Acronyms:

CAS: Chemical Abstracts Service.
 CERCLA: Comprehensive Environmental Response, Compensation and Liability Act.
 CFR: Code of Federal Regulations (USA).
 CLP: Classification, Labeling & Packaging of Substances & Mixtures.
 DOT: US Department of Transportation.
 DSCL: Dangerous Substances Classification & Labeling.
 EEC: European Economic Community.
 EINECS: European Inventory of Existing Commercial Chemical Substances.
 ELINCS: European List of Notified Chemical Substances.
 GHS: Globally Harmonized System of Classification and Labeling of Chemicals.
 HMIS: Hazardous Materials Identification System (USA).
 IATA: International Air Transport Association.
 MSHA/NIOSH: Closed Circuit Escape Respirators: Industry Guidelines.

NFPA: National Fire Protection Association (USA).
 OSHA: Occupational Safety and Health Administration.
 Proposition 65: Safe Drinking Water & Toxic Enforcement Act of 1986 (California).
 RCRA: Resource Conservation & Recovery Act.
 RTECS: Registry of Toxic Effects of Substances.
 SARA: Superfund Amendments and Reauthorization Act.
 SARA 302: Extremely Hazardous Substances.
 SARA 311/312: Hazardous Chemical Inventory: Reporting Requirements.
 SARA 313: Toxic Chemical Release: Reporting Requirements.
 STOT: Specific Target Organ Toxicity.
 TSCA: Toxic Substances Control Act.
 TWA: Time Weighted Average.
 WHMIS: Workplace Hazardous Material Information System, (Canada).

End of Safety Data Sheet