Safety Data Sheet

Version 1.0
Revision Date 06/01/2024

1. Product and Company Identification

Product Name	10mM Citrate Buffer pH 6.0
Catalog Number	C-11870F-1L
Supplier	Bethyl Laboratories, Inc. 25043 West FM 1097 Montgomery, TX 77356
Telephone	800-338-9579
Fax	866-597-6105
Product Use	For Research Use Only, Not for Diagnostic Use.

2. Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Not hazardous

GHS Label elements

Signal word	None
Hazard Statements	Not hazardous
Precautionary Statement(s)	
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P501	Dispose of contents/ container to an approved waste disposal plant.

3. Composition/Information on Ingredients

Composition: Mixture of 10mM Citric Acid Anhydrous and Sodium Citrate Anhydrous, pH 6.00 ± 0.20

Component	CAS Number	Concentration
Citric Acid Anhydrous	77-92-9	0.052%
Sodium Citrate Dihydrate	6132-04-3	0.22%
Water	7732-18-5	Rest

4. First Aid Measures

General Advice Consult a physician and show this safety data sheet.

If swallowed Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Consult a physician.

Skin contact Immediately wash skin with copious amounts of soap and water for at least 15 minutes. Remove contaminated clothing and shoes and wash before reuse. Consult a physician.

Eye exposure Rinse thoroughly with plenty of water for at least 15 minutes. Consult a physician.

If inhaled Remove to fresh air and monitor breathing. If breathing becomes difficult, give oxygen. If breathing stops, give artificial respiration. Consult a physician.

Most important symptoms and effects, both acute and delayed: To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

Indication of immediate medical attention and special treatment needed: Show this safety data sheet to the physician in attendance. Immediate medical attention is required.

5. Fire-Fighting Measures

Extinguishing Media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture
No data available.

Special protective equipment for firefighters
Wear suitable protective clothing to prevent contact with skin and eyes and self-contained breathing apparatus.

6. Accidental Release Measures

Personal precautions
Do not take action without suitable protective clothing - see section 8 of SDS. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid breathing vapors, mist, dust or gas.

Environmental precautions
Do not let product enter drains.

Methods and materials for containment and cleaning up
Cover spillage with suitable absorbent material. Using non-spark tools, sweep up material and place in an appropriate container. Decontaminate spill site with 10% caustic solution and ventilate area until after disposal is complete. Hold all material for appropriate disposal as described under section 13 of SDS.

Reference to other sections
For required PPE see section 8. For disposal see section 13.

7. Handling and Storage

Precautions for safe handling
Use in a chemical fume hood, with air supplied by an independent system. Avoid inhalation, contact with eyes, skin and clothing. Avoid the formation of dust and aerosols. Use in a well- ventilated area. Keep away from sources of ignition. Avoid prolonged or repeated exposure.

Conditions of safe storage
Store in cool, well-ventilated area. Keep away from direct sunlight. Keep container tightly sealed until ready for use. Keep in a dry place.

Specific end use(s)
Use in a laboratory fume hood where possible.

8. Exposure Controls/Personal Protection

Components with workplace control parameters
Contains no substance with occupational exposure limit values.

Appropriate engineering controls
Use in a fume hood where applicable. Ensure all engineering measures described under section 7 of SDS are in place. Ensure laboratory is equipped with a safety shower and eye wash station.

Personal protective equipment

Eye protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN166 (EU).

Skin protection
Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Body protection
Wear appropriate protective clothing. Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN149. Use a NIOSH/MSHA or European Standard EN149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Control of environmental exposure
Do not let product enter drains.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance	Clear, colorless liquid	**Vapor Pressure**	No Data Available
Odor	No Data Available	**Vapor Density**	No Data Available
Odor Threshold	No Data Available	**Relative Density**	No Data Available
pH	6.00 ± 0.20	**Water Solubility**	No Data Available
Melting/Freezing Point	No Data Available	**Partition Coefficient**	No Data Available
Initial Boiling Point Range	No Data Available	**Auto-Ignition Temperature**	No Data Available
Flash Point	No Data Available	**Decomposition Temperature**	No Data Available
Evaporation Rate	No Data Available	**Viscosity**	No Data Available
Flammability (Solid, Gas)	No Data Available	**Explosive Properties**	No Data Available
Upper/Lower Flammability or Explosive Limits	No Data Available	**Oxidizing Properties**	No Data Available

10. Stability and Reactivity

Chemical stability
Product is stable under normal conditions of storage and use.

Incompatible materials
Strong oxidizing agents.

Hazardous decomposition products
No data available.

11. Toxicological Information

Acute toxicity No data available

12. Ecological Information

Toxicity No data available
Persistence and degradability No data available
Bioaccumulative potential No data available
Mobility in soil No data available
PBT and vPvb assessment No data available
Other adverse effects No data available
Chronic toxicity There are no known carcinogenic chemicals in this product.

13. Disposal Considerations

Hazardous Disposal Required.
Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transportation Information

DOT	TDG	IATA	IMDG/IMO
Not regulated	Not regulated	Not regulated	Not regulated

15. Regulatory Information

USA Federal Regulation

SARA 313/SARA 311/312 HAZARDOUS CATEGORIZATION: Not Applicable
Clean Water Act/ Clean Air Act: No Data Available
Clean Air Act: Not Applicable
TSCA 12(b)/ OSHA/ CERCLA: Not Applicable
California Proposition 65: This product does not contain any Proposition 65 chemicals.

STATE RIGHT TO KNOW

Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
-	Listed	Listed	-	-

HMIS Rating

Health hazard	Chronic Health Hazard	Flammability	Physical Hazard
0	0	0	0

NFPA Rating

Health Hazard	Fire Hazard	Reactivity Hazard
0	0	0

US DEPARTMENT OF TRANSPORTATION

REPORTABLE QUANTITY (RQ)	DOT MARINE POLLUTANT	DOT SEVER MARINE POLLUTANT
No	No	No

U.S. DEPARTMENT OF HOMELAND SECURITY: This product does not contain any DHS chemicals.

Canada: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

This SDS complies with the requirements of Regulation (EC).

16. Other Information

For research use only.

Read instructions for use before using the product. Observe the general safety regulations when handling chemicals.

The above information is believed to be correct but does not purport to be all-inclusive and is intended to be used only as a guide. Bethyl Laboratories, Inc. shall not be liable or responsible in any way for use of either this information or the material supplied. Disposal of hazardous material may be subject to federal, state, or local laws or regulations.

Prepared by: Safety Department
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