



2X SDS LOADING BUFFER

MATERIAL SAFETY DATA SHEET (MSDS)

1. Product Identification	Synonyms: None CAS No.: Not applicable to mixtures. Molecular Weight: Not applicable to mixtures. Chemical Formula: Not applicable to mixtures. Product Codes: 400000 series																												
2. Ingredients	<table border="1"><thead><tr><th>Ingredient</th><th>CAS No</th><th>Conc.</th><th>Hazardous</th></tr></thead><tbody><tr><td>Tris</td><td>77-86-1</td><td>50 mM</td><td>Yes</td></tr><tr><td>Glycerol</td><td>56-81-5</td><td>10%</td><td>No</td></tr><tr><td>Sodium Dodecyl Sulfate</td><td>151-21-3</td><td>4%</td><td>No</td></tr><tr><td>Bromophenol Blue</td><td>62625-28-9</td><td>0.002%</td><td>No</td></tr><tr><td>Beta-mercaptoethanol</td><td>60-24-2</td><td>5%</td><td>Yes</td></tr><tr><td>Water</td><td>7732-18-5</td><td><0.1%</td><td>No</td></tr></tbody></table>	Ingredient	CAS No	Conc.	Hazardous	Tris	77-86-1	50 mM	Yes	Glycerol	56-81-5	10%	No	Sodium Dodecyl Sulfate	151-21-3	4%	No	Bromophenol Blue	62625-28-9	0.002%	No	Beta-mercaptoethanol	60-24-2	5%	Yes	Water	7732-18-5	<0.1%	No
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3. Physical and Chemical Properties	Appearance: Viscous blue liquid. Odor: Sulfur rich odor due to beta-mercaptoethanol. Solubility: Complete (100%) Specific Gravity: No information found. pH: 6.8 % Volatiles by volume @ 21C (70F): ca. 75 Boiling Point: 220 F. Melting Point: NA. Vapor Density (Air=1): water. Vapor Pressure (mm Hg): water. Evaporation Rate (BuAc=1): water.																												
4. Fire Fighting Measures	Fire: Not considered to be a fire hazard. Explosion: Not considered to be an explosion hazard. Fire Extinguishing Media: Use any means suitable for extinguishing surrounding fire. Special Information: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.																												
5. Hazard Identification	Caution: The chemical, physical and toxicological properties of this product have not been thoroughly investigated. Exercise due care. Potential Health Effects Inhalation: Harmful if inhaled. Material is irritating to mucous membranes and upper respiratory tract. Ingestion: Harmful if swallowed. Skin Contact: DANGER! May be fatal if absorbed through skin. Causes irritation to skin. Eye Contact: Causes irritation to eye. Chronic Exposure: No information found. Aggravation of Pre-existing Conditions: No information found. Health hazards given on this data sheet apply to concentrated solutions or pure form of mercaptoethanol. Hazards of dilute solutions may be reduced depending on concentration. Toxicology Oral rat LD50: 12,200 mg/kg Dermal rabbit LD50: 7,500 mg/kg																												
6. First Aid Measures	Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. Ingestion: If swallowed, wash out mouth with water provided person is conscious. Get medical attention. Skin Contact: Immediately flush skin with plenty of soap and water. Should irritation occur, contact a																												



	physician. Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.
7. Accidental Release Measures	Spill or release: wear lab coat, chemical resistant gloves and safety glasses. Wipe up spill with a suitable absorbant and dispose of properly. Wash down the spill site. Waste disposal method: Dispose of in accordance with all federal, state and local regulations.
8. Handling and Storage	Handling: This material is believed to be hazardous. Avoid inhalation, contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. May cause allergic reaction in sensitized individuals. Protective equipment: Good laboratory practices should always be used. Wear suitable protective clothing, chemical resistant gloves and lab safety glasses. Storage: Keep in a tightly closed container. Protect against physical damage.
9. Stability and Reactivity	Stability: Stable under ordinary conditions of use and storage. Hazardous Decomposition Products: Toxic gases may be involved in a fire. Hazardous Polymerization: Will not occur. Incompatibilities: Strong acids and strong oxidizers. Avoid contact with metals. Can react violently with acetic anhydride, calcium oxychloride, chromium oxides and alkali metal hybrids. Conditions to Avoid: Heat, incompatibles.
10. Special Precautions	This compound is sold only for research use by personnel familiar with the toxicology of organic chemicals and who are well trained in good laboratory habits, such as avoiding spills, keeping hands clean at all times and not rubbing eyes with hands while working in the laboratory. This compound is sold only in milligram quantities for use in diluted solutions in biological research. No other use is intended, and any other use may involve substantial hazards. The above information is believed to be correct but does not purport to be inclusive and shall be used only as a guide for experienced personnel. Abbiotec, LLC shall not be held liable for any damage resulting from the handling of or from contact with the above product. The burden of safe use of this material rests entirely with the user.

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