

PRODUCT IDENTIFICATION	PRODUCT: Tris/Borate/EDTA Electrophoresis Buffer (10X Concentrated Solution) PRODUCT #: 5111 MANUFACTURER: High Desert Bioscience Inc. Sierra vista, AZ, 520-456-9095. CHEMTREC: 800-424-9300																									
PRODUCT COMPOSITION	<table border="1"><thead><tr><th>CAS #</th><th>CHEMICAL NAME</th><th>CONCENTRATION</th><th>%</th><th>ENIECS#</th></tr></thead><tbody><tr><td>77-86-1</td><td>Tris (tris-hydroxymethyl-aminomethane)</td><td>890 mM</td><td>10.8</td><td>201-064-4</td></tr><tr><td>100043-35-3</td><td>Boric Acid (H₃BO₃)</td><td>890 mM</td><td>5.5</td><td>Unlisted</td></tr><tr><td>60-00-4</td><td>EDTA (ethylenediamine-tetraacetic acid)</td><td>20 mM</td><td><1</td><td>200-449-4</td></tr><tr><td>7732-18-5</td><td>Water</td><td></td><td>83</td><td>231-791-2</td></tr></tbody></table>	CAS #	CHEMICAL NAME	CONCENTRATION	%	ENIECS#	77-86-1	Tris (tris-hydroxymethyl-aminomethane)	890 mM	10.8	201-064-4	100043-35-3	Boric Acid (H ₃ BO ₃)	890 mM	5.5	Unlisted	60-00-4	EDTA (ethylenediamine-tetraacetic acid)	20 mM	<1	200-449-4	7732-18-5	Water		83	231-791-2
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PHYSICAL DATA	Aqueous solution, clear, no odor. Qty: 1 liter Specific gravity : 2.16 g/cc pH @ 25°C: 8.3 +/- 0.1																									
HAZARD DATA AND FIRST AID MEASURES	IRRITANT EYE: irritant, in case of contact rinse thoroughly with water and consult physician. SKIN: irritant, may cause local dermatitis, in case of contact wash thoroughly with soap & water, do not handle material with bare hands. Avoid all contact with clothing, properly dispose of all contaminated clothing. INGESTION: toxic, irritant, causes nausea, vomiting. Seek medical aid immediately. INHALATION: irritant, avoid breathing fumes.																									
FIRE HAZARD DATA	Non-flammable, wear MSHA/NIOSH approved self-contained breathing apparatus. Flashpoint: N/A NFPA RATING: Not published. Hazardous decomposition products: nitrogen oxides, CO, CO ₂																									
ACCIDENTAL RELEASE	Wear chemical safety goggles and gloves, collect material for disposal with absorbant material. May be disposed of by incineration in an approved device.																									
EXPOSURE CONTROL	Chemical safety goggles as per 29 CFR 1910.133 Chemical resistant gloves Avoid contact with eyes, skin and clothing Wash thoroughly after exposure Use respiration protection devices that meet OSHA CFR 1910.134 and ANSI Z88.2 specifications.																									
REACTIVITY	Stable at room temperature under normal conditions. Avoid contact with strong oxidizing agents.																									
TOXICOLOGY	RTECS: TY2900000/AH4025000 LD50/LC50: UNLISTED. CARCINOGENICITY: Not listed by ACGIH, IARC, NIOSH. NTP or OSHA. No other data available																									
ENVIRONMENTAL CONCERNS	Dispose of in a manner consistent with federal, state and local regulations. RCRA: No information available. Not listed as a RCRA land disposal banned material.																									
HANDLING & STORAGE	Store at room temperature in a UV light resistant container. Avoid eye and skin contact. Wear protective eye-wear, gloves and clothing. Follow directions for use.																									
TRANSPORT INFORMATION	No specific USDOT, IMO, IATA, RID/ADR or TDG information available. Constituent materials not listed at the concentrations occurring in these products. Contact Bridge Bioscience Inc. for additional transportation information:																									
REGULATIONS	Federal: TCSA: ingredients listed, no ingredients have a SNUR under TCSA. SARA: None of the ingredients have a RQ, None of the ingredients have a TPQ, None of the ingredients are listed under Section 313. CAA: This material does not contain any hazardous air pollutants or Class 1 or Class 2 ozone depleters. OSHA: None of the ingredients in this product are considered highly hazardous by OSHA at this product concentration. State RTK listings: none. European: No hazards symbols. Risk: not available.																									
OTHER INFORMATION	The above information is believed correct as of the above date, but does not purport to be all inclusive and shall be used only as a guide. High Desert Bioscience Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.																									