




**Section 1. Identification of the Substance/Mixture and the Company**

<b>Product Name</b>	UltraTek Alkaline Phosphatase
<b>Product Number</b>	ABM
<b>Intended Use</b>	Laboratory reagent.
<b>Manufacturer</b>	ScyTek Laboratories, Inc.
<b>Address</b>	205 South 600 West Logan, Utah 84321 U.S.A.
<b>Phone Number</b>	800-729-8350
<b>Fax Number</b>	435-755-0015
<b>e-mail</b>	msds@scytek.com
<b>Website</b>	scytek.com

**Section 2. Hazards Identification**




<b>Classification: Regulation (EC) No 1272/2008 (CLP)</b>	 <p>GHS07 Causes skin, eye, and respiratory irritation. 2, H315; 2, H319; 3, H335</p>		
<b>Classification: Directive 1999/45/EC</b>	 <p>Xn EN: Harmful DA: Sundhedsskadelig DE: Gesundheitsschädlich EL: Επιβλαβές ES: Nocivo FR: Nocif IT: Nocivo NL: Schadelijk PT: Nocivo SV: Hälsoskadlig</p> <p>For full text of R- &amp; S- phrases: see Section 15.</p>		
<b>NFPA Scale: 0-4</b>			
<b>HMIS (U.S.A.) Scale: 0-4</b>	HEALTH	1	
	FLAMMABILITY	0	
	PHYSICAL HAZARD	0	
	PERSONAL PROTECTION	B	
<b>Other Hazards</b>	<p><b>PBT:</b> This mixture does not contain any substances that are assessed to be a PBT. <b>vPvB:</b> This mixture does not contain any substances that are assessed to be a vPvB.</p>		

### Section 3. Composition and Information on Ingredients

**Chemical Description:** Mixture

\*May contain additional non-hazardous proprietary ingredients.

\*May contain additional active ingredients at concentrations &lt;0.1%w/v.

Hazardous Ingredients:	CAS#	EC#	GHS Symbols	%
Water	7732-18-5	231-791-2	n/a	≥ 95
Tris	77-86-1	201-064-4	 Irritant. 2. H315; 2. H319; 3. H335	≤ 0.6
Sodium Chloride	7647-14-5	7647-14-5	n/a	≤ 0.9
Bovine Serum Albumin	9048-46-8	9048-46-8	 Eye irritant. 2 H319	≤ 1
Sodium Azide	26628-22-8	247-852-1	 Irritant. 4. H302; 2. H315; 3. H332	≤ 0.1

### Section 4. First Aid Measures

**Eye Contact:** Check for and remove contact lenses. Immediately flush eyes with copious amounts of water and get immediate medical attention.

**Skin Contact:** Remove contaminated clothing and wash contact area with mild soap and copious amounts of water. Get medical attention if irritation develops.

**Inhalation:** If inhaled, remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms worsen.

**Ingestion:** Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as collar, tie, belt or waistband. Get immediate medical attention.

### Section 5. Fire Fighting Measures

<b>Extinguishing Media</b>	Extinguish fire using water spray, carbon dioxide, chemical foam, or dry chemical.
<b>Unusual Fire and Explosion Hazards</b>	No unusual fire or explosion hazards expected.
<b>General Information</b>	As with any fire, wear personal protection equipment, including a self-contained breathing apparatus (S.C.B.A.)

### Section 6. Accidental Release Measures

Wear chemical resistant clothing, gloves, and eye protection. Wear NIOSH/MSHA approved breathing apparatus. Keep material away from heat, flame, ignition sources, and reactive materials. Wipe up or absorb spill using inert absorbent and place in a suitable waste container for disposal.

### Section 7. Handling and Storage

**Precautions for safe handling.**

Avoid contact with skin and eyes.

Wash thoroughly after handling.

Avoid breathing vapor.

**Conditions for safe storage, including any incompatibilities.**

Store in well ventilated area.

Keep container tightly closed.

Store at 2-8°C.

**Specific end use(s).**

Not applicable.

### Section 8. Exposure Controls / Personal Protection

<b>Exposure Limits</b>	OSHA PEL; Sodium Azide: 0.1 ppm as hydrazoic acid vapor (HN <sub>3</sub> ). Ceiling of 0.3mg/m <sup>3</sup> as sodium azide (NaN <sub>3</sub> ). ACGIH: Ceiling limit for sodium azide: 0.1ppm; 0.3mg/m <sup>3</sup> as hydrazoic acid vapor.
<b>Personal Protection</b>	<p><b>Eye/Face protection.</b> Safety glasses or goggles are required.</p> <p><b>Skin protection.</b> Protective clothing is required.</p> <p><b>Hand protection.</b> Chemical resistant gloves are required. Glove material must be resistant to the components of this product. Consult glove manufacturer for specific recommendations of appropriate material and thickness of glove.</p> <p><b>Respiratory protection.</b> Avoid breathing vapor.</p> <p><b>Environmental exposure controls.</b> Avoid releasing large quantities into the environment. No additional information.</p>
<b>Engineering Controls</b>	Working area should be adequately large and well ventilated to prevent concentration of vapors. Provide mechanical exhaust ventilation or other engineering controls to keep airborne concentrations of vapors below their respective threshold limits.

### Section 9. Physical and Chemical Properties

<b>Physical State</b>	Liquid
<b>Color</b>	Red
<b>Odor</b>	Odorless
<b>Odor Threshold</b>	Unknown
<b>pH</b>	7.4 ±0.2
<b>Melting Point/ Freezing Point</b>	Unknown
<b>Initial Boiling Point</b>	Unknown
<b>Flash Point</b>	N/A
<b>Evaporation Rate</b>	Unknown
<b>Flammability (solid, gas)</b>	Unknown
<b>Upper/Lower Flammability Limits</b>	N/A
<b>Vapor Pressure</b>	Unknown
<b>Vapor Density</b>	Unknown
<b>Relative Density</b>	Unknown
<b>Solubility(ies)</b>	Water
<b>Partition Coefficient: n-octanol/water</b>	Unknown
<b>Auto-Ignition Temperature</b>	Unknown
<b>Decomposition Temperature</b>	Unknown
<b>Viscosity</b>	Unknown
<b>Explosive Properties</b>	Not explosive.
<b>Oxidizing Properties</b>	Unknown

### Section 10. Stability and Reactivity

<b>Reactivity</b>	No relevant data available.
<b>Chemical Stability</b>	Stable under normal temperatures and pressures.
<b>Possibility of Hazardous Reactions</b>	No hazardous reactions known.
<b>Conditions to Avoid</b>	Avoid contact with copper or lead plumbing. Flush plumbing with large amounts of water. Fire, static electricity, direct sunlight.
<b>Incompatible Materials</b>	Strong acids, bases and oxidizers.
<b>Hazardous Decomposition Materials</b>	May produce toxic fumes of carbon oxides and nitrogen oxides under fire conditions.

### Section 11. Toxicological Information

<b>Information on Toxicological Effects.</b>	<p><b>Acute Toxicity.</b> No relevant data available.</p> <p><b>Skin Corrosion/Irritation.</b> Irritating to skin and mucous membranes.</p> <p><b>Serious Eye Damage/Irritation.</b> Irritating to eye.</p> <p><b>Respiratory or skin sensitization.</b> No relevant data available.</p> <p><b>Germ Cell Mutagenicity.</b> No relevant data available.</p>
<b>Carcinogenicity.</b>	<p><b>International Agency for Research on Cancer (IARC).</b> None of the components are listed.</p> <p><b>National Toxicology Program (NTP).</b> None of the components are listed.</p>

### Section 12. Ecological Information

<b>Toxicity</b>	<p><b>Fish:</b> (Sodium Azide): Rainbow Trout: LC50: 0.8-1.6 mg/L; 96 Hr.; 13 degrees Celsius. Bluegill/Sunfish: LC50= 0.7-0.8mg/L; 96 Hr.; 18 degree Celsius.</p> <p><b>Crustacea:</b> No relevant studies identified.</p> <p><b>Algae/Aquatic Plants:</b> No relevant studies identified.</p> <p><b>Other Organisms:</b> No relevant studies identified.</p>
<b>Persistence and Degradability.</b>	No relevant studies identified.
<b>Bioaccumulative Potential.</b>	No relevant studies identified.
<b>Mobility in Soil.</b>	No relevant studies identified.
<b>Additional Remarks</b>	None.
<b>Results of PBT and vPvB Assessment.</b>	<p><b>PBT:</b> This mixture does not contain any substances that are assessed to be a PBT.</p> <p><b>vPvB:</b> This mixture does not contain any substances that are assessed to be a vPvB.</p>

### Section 13. Disposal Considerations

<b>Waste Disposal Methods.</b>	Sewage disposal is discouraged. Waste should not be disposed of by release to sewers. Dispose waste in accordance with federal, state and local environmental control regulations.
<b>Product/Packaging Disposal.</b>	Final decisions on the appropriate waste management method must be in line with local, regional and national regulations.

<b>Other Disposal Recommendations.</b>	No relevant data available.
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### Section 14. Transport Information

<b>UN Number DOT, IATA,IMDG, ADR</b>	Not applicable.
<b>UN Proper Shipping Name DOT, IATA,IMDG, ADR</b>	Not applicable.
<b>Transport Hazard Class(es)</b>	<b>DOT</b> Not a DOT controlled product.  <b>IATA, IMDG, ADR</b> Not an IATA, IMDG, ADR controlled product.
<b>Packing Group DOT, IATA,IMDG, ADR</b>	N/A
<b>Environmental Hazards</b>	<b>Marine Pollutant:</b> No
<b>Special Precautions for User</b>	Not applicable.
<b>ADR Hazard Identification Number (Kemler Code).</b>	Not applicable.
<b>IMDG Segregation Group</b>	Not applicable.
<b>Transport in Bulk According to Annex II of MARPOL73/78 and the IBC Code.</b>	Not applicable.

### Section 15. Regulatory Information

#### Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture.

<b>Specific Toxic Chemical Listings; Section 313</b>	None of the components in this mixture are listed.
<b>Extremely Hazardous Substances; Section 355</b>	None of the components in this mixture are listed.
<b>Toxic Substances Control Act; TSCA</b>	All of the components in this mixture are listed.
<b>California Proposition 65</b>	California Prop 65: This product contains sodium azide: CAS# 26628-22-8
<b>Chemical Safety Assessment</b>	No Chemical Safety Assessment has been carried out for this substance/mixture by ScyTek Laboratories, Inc.
<b>R phrases</b>	<b>R22</b> EN: Harmful if swallowed. DA: Farlig ved indtagelse. DE: Gesundheitsschädlich beim Verschlucken. EL: Επιβλαβές σε περίπτωση καταπόσεως. ES: Nocivo por ingestión. FR: Nocif en cas d'ingestion. IT: Nocivo per ingestione. NL: Schadelijk bij opname door de mond. PT: Nocivo por ingestão. SV: Farligt vid förtäring.

	<p><b>R36/38</b>  EN: Irritating to eyes and skin.  DA: Irriterer øjnene og huden  DE: Reizt die Augen und die Haut.  EL: Ερεθίζει τα μάτια και το δέρμα.  ES: Irrita los ojos y la piel.  FR: Irritant pour les yeux et la peau.  IT: Irritante per gli occhi e la pelle.  NL: Irriterend voor de ogen en de huid.  PT: Irritante para os olhos e pele.  SV: Irriterar ögonen och huden.</p>
<p><b>S phrases</b></p>	<p><b>S24/25</b>  EN: Avoid contact with skin and eyes.  DA: Undgå kontakt med huden og øjnene.  DE: Berührung mit den Augen und der Haut vermeiden.  EL: Αποφεύγετε επαφή με το δέρμα και με τα μάτια.  ES: Evítese el contacto con los ojos y la piel.  FR: Éviter le contact avec la peau et les yeux.  IT: Evitare il contatto con gli occhi e con la pelle.  NL: Aanraking met de ogen en de huid vermijden.  PT: Evitar o contacto com a pele e os olhos.  SV: Undvik kontakt med huden och ögonen.</p> <p><b>S37/39</b>  EN: Wear suitable gloves and eye/face protection.  DA: Brug egnede beskyttelseshandsker og -briller/ansigtsskærm under arbejdet.  DE: Bei der Arbeit geeignete Schutzhandschuhe und Schutzbrille/Gesichtsschutz tragen.  EL: Φοράτε κατάλληλα γάντια και συσκευή προστασίας ματιών/προσώπου.  ES: Usense guantes adecuados y protección para los ojos/la cara.  FR: Porter des gants appropriés et un appareil de protection des yeux/du visage.  IT: Usare guanti adatti e proteggerli gli occhi/la faccia.  NL: Draag geschikte handschoenen en een beschermingsmiddel voor de ogen/het gezicht.  PT: Usar luvas e equipamento protector para os olhos /face adequados.  SV: Använd lämpliga skyddshandskar samt skyddsglasögon eller ansiktsskydd.</p> <p><b>S46</b>  EN: If swallowed, seek medical advice immediately and show this container or label.  DA: Ved indtagelse, kontakt ødmøgående læge og vis denne beholder eller etiket.  DE: Bei Verschlucken sofort ärztlichen Rat einholen und Verpackung odor Etikett vorzeigen.  EL: Σε περίπτωση κατάποσης ζητήστε αμέσως ιατρική συμβουλή και δείξτε αυτό το δοχείο ή την ετικέτα.  ES: En caso de ingestión, acúdase inmediatamente al medico y muéstrele la etiqueta o el envase.  FR: En cas d'ingestion, consulter immédiatement un médecin et lui montrer l'emballage ou l'étiquette.  IT: In caso d'ingestione consultare immediatamente il medico e mostrargli il contenitore o l'etichetta.  NL: In geval van inslikken onmiddellijk een arts raadplegen en verpakking of etiket tonen.  PT: Em caso de ingestão, consultar imediatamente o médico e mostrar-lhe a embalagem ou o rótulo.  SV: Vid förtäring kontakta genast läkare och visa denna förpackning eller etiketten.</p>

**Section 16. Other Information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. ScyTek Laboratories shall not be held liable for any damage resulting from handling or from contact with the above product.