




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

<b>Product Name</b>	TTF-1 & Cytokeratin 5 Multiplex Cocktail; Clones 8G7G3/1 & EP42 (Ready-To-Use)
<b>Product Number</b>	A00145
<b>Intended Use</b>	EN: Laboratory reagent. For professional use only. DA: Laboratoriereagens. Kun til professionelt brug. DE: Laboratoriumreagens. Alleen voor professioneel gebruik. EL: Αντιδραστήριο εργαστηρίου. Για επαγγελματική χρήση μόνο. ES: Reactivo de laboratorio. Sólo para uso profesional. FR: Réactif de laboratoire. Pour un usage professionnel uniquement. IT: Laboratorio di reagente. Solo per uso professionale. NL: Laboratoriumreagens. Alleen voor professioneel gebruik. PT: Reagente de laboratório. Para uso profissional. SV: Laboratoriereagens. Endast för yrkesmässig användning.
<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>	 GHS07 Harmful if swallowed 4, H302
<b>Classification: Directive 1999/45/EC</b>	 <b>Xn</b> EN: Harmful DA: Sundhedsskadelig DE: Gesundheitsschädlich EL: Επιβλαβής ES: Nocivo FR: Nocif IT: Nocivo NL: Schadelijk PT: Nocivo SV: Hälsoskadlig  <b>R22</b> EN: Harmful if swallowed. DA: Farlig ved indtagelse. DE: Gesundheitsschädlich beim Verschlucken. EL: Επιβλαβής 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.  For full text of R- & S- phrases: see Section 15.								
<b>NFPA</b> <b>Scale: 0-4</b>									
<b>HMIS (U.S.A.)</b> <b>Scale: 0-4</b>	<table border="1"> <tr> <td>HEALTH</td> <td style="text-align: center;">1</td> </tr> <tr> <td>FLAMMABILITY</td> <td style="text-align: center;">0</td> </tr> <tr> <td>PHYSICAL HAZARD</td> <td style="text-align: center;">0</td> </tr> <tr> <td>PERSONAL PROTECTION</td> <td style="text-align: center;">B</td> </tr> </table>	HEALTH	1	FLAMMABILITY	0	PHYSICAL HAZARD	0	PERSONAL PROTECTION	B
HEALTH	1								
FLAMMABILITY	0								
PHYSICAL HAZARD	0								
PERSONAL PROTECTION	B								
<b>Other Hazards</b>	<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.								

### 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	231-79-2	n/a	≥ 95
Bovine Serum Albumin	9048-46-8	232-936-2	 Warning. 2 H319 Causes serious eye irritation.	≤ 1.0
Sodium Chloride	7647-14-5	231-598-3	 Warning. 1. H317 May cause an allergic skin reaction.	≤ 0.9
Potassium Phosphate	7758-11-4	231-834-5	 Warning. 4 H302 Harmful if swallowed. 2 H315 Causes skin irritation. 2 H319 Causes serious eye irritation.	≤ 0.2
Sodium Azide	26628-22-8	247-852-1	 Warning. 4 H302 Harmful if swallowed. 2 H315 Causes skin irritation. 3. H332 Harmful if inhaled.	≤ 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>	N/A
<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>	Green.
<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>	≈ 1
<b>Solubility(ies)</b>	Infinitely soluble in water.
<b>Partition Coefficient: n-octanol/water</b>	Unknown
<b>Auto-Ignition Temperature</b>	N/A
<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>	Not reactive.
<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>	Fire, static electricity, direct sunlight.
<b>Incompatible Materials</b>	Strong acids, bases and oxidizers.
<b>Hazardous Decomposition Materials</b>	None known.

### 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>	<b>Fish:</b> No relevant studies identified. <b>Crustacea:</b> No relevant studies identified. <b>Algae/Aquatic Plants:</b> No relevant studies identified. <b>Other Organisms:</b> No relevant studies identified.
<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>	<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.

### 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.

### 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>	Other Regulations: OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).
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<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>	None of the components in this mixture are listed.
<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>	<p><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> <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>
<b>S phrases</b>	<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: Úsense 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 proteggersi 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 odümgående læge og vis denne beholder eller etiket.</p>

P.O. Box 3286 - Logan, Utah 84323, U.S.A. - Tel. (800) 729-8350 – Tel. (435) 755-9848 - Fax (435) 755-0015 - [www.scytek.com](http://www.scytek.com)

	<p>DE: Bei Verschlucken sofort ärztlichen Rat einholen und Verpackung oder 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>
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### 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.