



# Material Safety Data Sheet

## AA00102-MSDS

Rev. Date: Jan. 1, 2016

Revision: 1

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### Section 1. Product and Company Identification

<b>Product Name</b>	Glial Fibrillary Acidic Protein (GFAP)
<b>Product Number</b>	AA00102
<b>Intended Use</b>	Laboratory reagent.
<b>Manufacturer</b>	Teomics, LLC.
<b>Address</b>	P.O. Box 66641 1319 Richmond Ave Houston, TX 77266-6641
<b>Phone Number</b>	1-844-836-6427
<b>Website</b>	teomics.com

### Section 2. Hazards Identification

<b>HMIS (U.S.A.)</b>	HEALTH	1
	FLAMMABILITY	0
	PHYSICAL HAZARD	0
	PERSONAL PROTECTION	B
<b>OSHA</b>	This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).	
<b>Warning!</b>	EN: Harmful if swallowed. DE: Gesundheitsschädlich beim Verschlucken. FR: Nocif en cas d'ingestion. IT: Nocivo per ingestione. ES: Nocivo por ingestión.	
<b>Classification</b>	Xn; R22	

### Section 3. Composition and Information on Ingredients

Name	CAS#	EC#	%
Water	7732-18-5	231-791-2	≥ 95
Bovine Serum Albumin	9048-46-8	9048-46-8	≤ 1.0
Sodium Chloride	7647-14-5	7647-14-5	≤ 0.9
Tris	77-86-1	201-064-4	≤ 0.6
Sodium Azide	26628-22-8	247-852-1	<0.1

May contain additional non-hazardous proprietary ingredients. May also contain additional active ingredients at concentrations &lt;0.1%w/v.

### Section 4. First Aid Measures

**Eye Contact:** 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:** Remove person to fresh air. Get medical attention if symptoms worsen.  
**Ingestion:** 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.  
Keep out of drains, sewers and waterways.

### Section 7. Handling and Storage

Avoid contact with skin and eyes.  
Wash thoroughly after handling.  
Store in well ventilated area.  
Keep container tightly closed.  
Avoid breathing vapor.  
Store at 2-8°C.

### Section 8. Exposure Controls / Personal Protection

<b>Exposure Limits</b>	N/A
<b>Personal Protection</b>	Chemical resistant gloves are required. Safety glasses or goggles are required. Avoid breathing vapor.
<b>Engineering Controls</b>	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>	Colorless to slightly yellow.
<b>Odor</b>	Odorless.
<b>pH</b>	7.4 ±0.2
<b>Molecular Weight</b>	N/A
<b>Vapor Pressure</b>	N/A
<b>Vapor Density</b>	N/A
<b>Evaporation Rate</b>	N/A
<b>Viscosity</b>	N/A
<b>Boiling Point</b>	N/A
<b>Freezing Point</b>	N/A
<b>Melting Point</b>	N/A
<b>Solubility</b>	N/A
<b>Solubility in Water</b>	Soluble
<b>Flash Point</b>	N/A
<b>Explosion Limits (%)</b>	N/A

### Section 10. Stability and Reactivity

<b>Chemical Stability</b>	Stable under normal temperatures and pressures.
<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.
<b>Hazardous Polymerization</b>	Not reported.

### Section 11. Toxicological Information

<b>Routes of Entry</b>	Dermal contact. Eye contact. Inhalation. Ingestion.
<b>Acute Toxicity</b>	<b>Eye Contact:</b> May cause irritation and redness. <b>Skin Contact:</b> May irritate skin. <b>Ingestion:</b> May irritate gastrointestinal system. <b>Inhalation:</b> May irritate respiratory tract.
<b>Chronic toxicity</b>	<b>Eye Contact:</b> Unknown. <b>Skin Contact:</b> Unknown. <b>Ingestion:</b> Unknown. <b>Inhalation:</b> Unknown.
<b>Toxicity to Animals</b>	Not Available.
<b>Special Remarks</b>	This product contains Sodium Azide (<0.1%) as a preservative. While not considered hazardous at this level, use care in handling and disposal.

### Section 12. Ecological Information

<b>Ecotoxicity</b>	No relevant studies identified.
<b>Mobility</b>	No relevant studies identified.
<b>Bio-accumulation</b>	No relevant studies identified.
<b>Persistence/Degradability</b>	No relevant studies identified.
<b>Additional Remarks</b>	This product contains Sodium Azide (<0.1%) as a preservative. While not considered hazardous at this level, use care in handling and disposal. May be harmful to aquatic organisms.

### Section 13. Disposal Considerations

Observe all federal, state and local environmental regulations.

### Section 14. Transport Information

<b>DOT CRF 172.101 Data</b>	Not a DOT controlled material (United States).
<b>UN Shipping Name</b>	N/A
<b>UN Number</b>	N/A
<b>UN Class</b>	N/A
<b>UN Packing Group</b>	N/A
<b>Special Provisions</b>	None.
<b>Canada TDG</b>	Not regulated.

### Section 15. Regulatory Information

<b>Federal and State Regulations</b>	Not regulated.
<b>Other Regulations</b>	N/A
<b>EU Hazard Symbol and Indication of Danger</b>	Xn; Harmful
<b>R phrases</b>	<p><b>R22</b> EN: Harmful if swallowed. DE: Gesundheitsschädlich beim Verschlucken. FR: Nocif en cas d'ingestion. IT: Nocivo per ingestione. ES: Nocivo por ingestión.</p> <p><b>R36/38</b> EN: Irritating to eyes and skin. DE: Reizt die Augen und die Haut. FR: Irritant pour les yeux et la peau. IT: Irritante per gli occhi e la pelle. ES: Irrita los ojos y la piel.</p>
<b>S phrases</b>	<p><b>S24/25</b> EN: Avoid contact with skin and eyes. DE: Berührung mit den Augen und der Haut vermeiden. FR: Éviter le contact avec la peau et les yeux. IT: Evitare il contatto con gli occhi e con la pelle. ES: Evítense el contacto con los ojos y la piel.</p> <p><b>S37/39</b> EN: Wear suitable gloves and eye/face protection. DE: Bei der Arbeit geeignete Schutzhandschuhe und Schutzbrille/Gesichtsschutz tragen. FR: Porter des gants appropriés et un appareil de protection des yeux/du visage. IT: Usare guanti adatti e proteggersi gli occhi/la faccia. ES: Úsense guantes adecuados y protección para los ojos/la cara.</p> <p><b>S46</b> EN: If swallowed, seek medical advice immediately and show this container or label. DE: Bei Verschlucken sofort ärztlichen Rat einholen und Verpackung oder Etikett vorzeigen. 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. ES: En caso de ingestión, acúdase inmediatamente al médico y muéstresele la etiqueta o el envase.</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. Teomics shall not be held liable for any damage resulting from handling or from contact with the above product.