




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

Product Name	Pepsin, Stabilized Solution
Product Number	IPSS
Intended Use	Laboratory reagent.
Manufacturer	Teomics, LLC.
Address	Energy Research Park 5000 Gulf Freeway, Bldg 5 (114) Houston, Texas 77023
Phone Number	800-397-3010
e-mail	msds@teomics.com
Website	teomics.com

Section 2. Hazards Identification




Classification: Regulation (EC) No 1272/2008 (CLP)	 <p>GHS07 Causes skin and eye irritation. 2, H315; 2, H319</p>								
Classification: Directive 1999/45/EC	 <p>Xi EN: Irritant DA: Lokalirriterende DE: Reizend EL: Ερεθιστικό ES: Irritante FR: Irritant IT: Irritante NL: Irriterend PT: Irritante SV: Irriterande</p> <p>For full text of R- & S- phrases: see Section 15.</p>								
NFPA Scale: 0-4									
HMIS (U.S.A.) Scale: 0-4	<table border="1"> <tr> <td>HEALTH</td> <td>1</td> </tr> <tr> <td>FLAMMABILITY</td> <td>0</td> </tr> <tr> <td>PHYSICAL HAZARD</td> <td>0</td> </tr> <tr> <td>PERSONAL PROTECTION</td> <td>B</td> </tr> </table>	HEALTH	1	FLAMMABILITY	0	PHYSICAL HAZARD	0	PERSONAL PROTECTION	B
HEALTH	1								
FLAMMABILITY	0								
PHYSICAL HAZARD	0								
PERSONAL PROTECTION	B								
Other Hazards	<p>PBT: This mixture does not contain any substances that are assessed to be a PBT.</p> <p>vPvB: 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 <0.1%/w/v.

Hazardous Ingredients:	CAS#	EC#	GHS Symbols	%
Water	7732-18-5	231-791-2	n/a	≥ 98
Brij-35	9002-92-0	500-002-6	 Irritant. 4. H302, 2. H315. 1 H318, 1 H401	≤ 0.5
Sodium Azide	26628-22-8	247-852-1	 Toxic. 3 H301, 1 H410	≤ 0.09
Pepsin	9001-75-6	232-629-3	 Irritant. 2. H315; 2. H319; 3. H335	≤ 0.3

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

Extinguishing Media	Extinguish fire using water spray, carbon dioxide, chemical foam, or dry chemical.
Unusual Fire and Explosion Hazards	No unusual fire or explosion hazards expected.
General Information	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

Exposure Limits	Sodium azide OSHA PEL: 0.1 ppm as hydrazoic acid vapor (HN ₃). Ceiling of 0.3mg/m ³ as sodium azide (NaN ₃). Sodium azide ACGIH: Ceiling limit : 0.1ppm; 0.3mg/m ³ as hydrazoic acid vapor.
Personal Protection	Eye/Face protection. Safety glasses or goggles are required. Skin protection. Protective clothing is required. Hand protection. 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. Respiratory protection. Avoid breathing vapor. Environmental exposure controls. Avoid releasing large quantities into the environment. No additional information.
Engineering Controls	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

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

Oxidizing Properties	Unknown
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Section 10. Stability and Reactivity

Reactivity	No relevant data available.
Chemical Stability	Stable under normal temperatures and pressures.
Possibility of Hazardous Reactions	No hazardous reactions known.
Conditions to Avoid	Fire, static electricity, direct sunlight.
Incompatible Materials	Strong acids and bases.
Hazardous Decomposition Materials	May produce toxic fumes of phosphoxides and sodium oxides under fire conditions.

Section 11. Toxicological Information

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

Section 12. Ecological Information

Toxicity	Fish: No relevant studies identified. Crustacea: No relevant studies identified. Algae/Aquatic Plants: No relevant studies identified. Other Organisms: No relevant studies identified.
Persistence and Degradability.	No relevant studies identified.
Bioaccumulative Potential.	No relevant studies identified.
Mobility in Soil.	No relevant studies identified.
Additional Remarks	None.
Results of PBT and vPvB Assessment.	PBT: This mixture does not contain any substances that are assessed to be a PBT. vPvB: This mixture does not contain any substances that are assessed to be a vPvB.

Section 13. Disposal Considerations

Waste Disposal Methods.	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.
Product/Packaging Disposal.	Final decisions on the appropriate waste management method must be in line with local, regional and national regulations.
Other Disposal	No relevant data available.

Recommendations.	
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Section 14. Transport Information

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

Section 15. Regulatory Information
Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture.

Specific Toxic Chemical Listings; Section 313	This product contains Sodium Azide, CAS# 26628-22-8
Extremely Hazardous Substances; Section 355	None of the components in this mixture are listed.
Toxic Substances Control Act; TSCA	All of the components in this mixture are listed.
California Proposition 65	This product contains Sodium Azide, CAS# 26628-22-8
Chemical Safety Assessment	No Chemical Safety Assessment has been carried out for this substance/mixture by Teomics, LLC.
R phrases	R36/37/38 EN: Irritating to eyes, respiratory system and skin. DA: Irriterer øjnene, åndedrætsorganerne og huden. DE: Reizt die Augen, Atmungsorgane und die Haut. EL: Ερεθίζει τα μάτια, το αναπνευστικό σύστημα και το δέρμα. ES: Irrita los ojos, la piel y las vías respiratorias. FR: Irritant pour les yeux, les voies respiratoires et la peau. IT: Irritante per gli occhi, le vie respiratorie e la pelle. NL: Irriterend voor de ogen, de ademhalingswegen en de huid. PT: Irritante para os olhos, vias respiratórias e pele. SV: Irriterar ögonen, andningsorganen och huden.
S phrases	S2 EN: Keep out of the reach of children. DA: Opbevares utilgængeligt for børn. DE: Darf nicht in die Hände von Kindern gelangen.

EL: Μακριά από παιδιά.
ES: Manténgase fuera del alcance de los niños.
FR: Conserver hors de la portee des enfants.
IT: Conservare fuori della portata dei bambini.
NL: Buiten bereik van kinderen bewaren.
PT: Manter fora do alcance das crianças.
SV: Förvaras oåtkomligt för barn.

S37/39

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.

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, LLC shall not be held liable for any damage resulting from handling or from contact with the above product.