

**MATERIAL SAFETY DATA SHEET**  
**OSHA "Hazard Communication" (29 CFR 1910.1200)**

**Section I- Manufacturer and Products**

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**Local and International call 1-215-996-3000**

Molecular Biology and Immuno-detection Reagents

**Product Name: UltraAmp Binding Buffer (all sizes)**

**Product No's.: ABB005, ABB100**

Reagents to be used with Genisphere's UltraAmp products for protein and nucleic acid detection.

**Section II- Composition, Information on Ingredients**

Substance/Preparation : Preparation

<u>Ingredient Name</u>	<u>CAS No.</u>	<u>%</u>	<u>EC Number</u>	<u>Symbol</u>	<u>R-Phrases</u>
<b>may contain the following preservatives:</b>					
1) Amphotericin B	1397-89-3	<0.1	215-742-2	T	R23/24/25, R36137138, R40
2) ProClin 300	mixture	<0.1	Not available.	-	Not controlled under dsd (Europe).
3) GENTAMYCIN	1405-41-0	<0.1	215-778-9	-	Not controlled under dsd (Europe).
4) Sodium Azide	26628-22-8	<0.1	247-852-1	T+,N	R28, R32, R50/53

**Section III- Hazards Identification**

<b>United States</b>	Review the most current and approved institutional guideline, protocol, standard operating procedure(s) and MSDS(s) for the proper handling of institutional materials/equipment associated with the use of this product.
<b>Emergency Overview</b>	No specific hazard.
<b>Routes of Entry</b>	Absorbed through the skin. Eye contact. Inhalation. Ingestion.
<b>Potential Acute Health Effects</b>	Slightly hazardous in case of skin contact (irritant, sensitizer), of eye contact (irritant), of ingestion, of inhalation (lung irritant). Non-sensitizer for lungs.
<b>Carcinogenic Effects Data</b>	CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available.
<b>Medical Conditions Aggravated by Overexposure</b>	Repeated or prolonged exposure is not known to aggravate medical condition.
<b>Overexposure /Signs/Symptoms</b>	Not available.

**Europe**

<b>Classification</b>	<b>Not controlled under dsd (Europe).</b>
Physical/chemical hazards	Not applicable.
Human health hazards	Not applicable.
Environmental hazards	Not applicable.

See Toxicological Information (Section IX)

**Section IV- First Aid Measures**

**Notice to Reader**

**Get immediate medical attention.**

**Effects and symptoms**

Inhalation	Slightly hazardous in case of inhalation (lung irritant). Non-sensitizer for lungs.
Ingestion	Slightly hazardous in case of ingestion.
Skin Contact	Slightly hazardous in case of skin contact (irritant, sensitizer). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.
Eye Contact	Slightly hazardous in case of eye contact (irritant).
Aggravating conditions.	Repeated or prolonged exposure is not known to aggravate medical condition

**First-Aid Measures**

Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear.
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin Contact	Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used.
Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention if irritation occurs.
Notes to Physician	Not available.
Protection of first-aiders	Not available.

**Section V- Fire Fighting Measures**

Flammability of the Product	Non-flammable.
Flash Points	Not applicable.
Fire Hazards in Presence of Various Substances	Not applicable.
Fire Fighting Media and Instructions	Not applicable.
Protective Clothing (Fire)	Not applicable.
Hazardous thermal (de)composition products	Not applicable.

**Section VI- Accidental Release Measures**

Personal precautions	Safety glasses. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.
Environmental Precautions and Clean-up Methods	Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.
Small Spill and Leak	Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

**Section VII- Handling and Storage**

Handling	Avoid breathing vapors or spray mists.
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area.
Intended Use	Refer to the product insert for proper and intended use. Otherwise, contact supplier for specific applications.
<u>Packaging materials</u> Suitable \ Not suitable	Use original container.

**Section VIII- Exposure Controls/Personal Protection**

Engineering Controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.
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**Exposure Limit Values**

<u>Ingredient Name</u>	<u>Occupational Exposure Limits</u>
United States	Not established.
Sweden	Not established.
Denmark	Not established.
Norway	Not established.
France	Not established.
Netherlands	Not established.
Germany	Not established.

Personal Protection

Eyes  
Body

Safety glasses  
Lab coat.

Protective Clothing  
(Pictograms)



**Section IX- Physical and Chemical Properties**

Physical State and Appearance	Liquid or Solid depending on product.
Odor	Not available.
Taste	Not available.
Color	Not available.
Molecular Weight	Not applicable.
pH (1% Soln/Water)	Neutral.
Boiling/Condensation Point	The lowest known value is 100°C (212°F) (Milli-Q Water).
Melting/Freezing Point	May start to solidify at -0.1 °C (31.8°F) based on data for: Milli-Q Water.
Specific Gravity	The only known value is 1 (Water = 1) (Milli-Q Water).
Vapor Pressure	The highest known value is 2.3 kPa (@ 20°C) (Milli-Q Water).
Vapor Density	The highest known value is 0.62 (Air = 1) (Milli-Q Water).
Evaporation Rate	0.36 (Milli-Q Water) compared to Butyl acetate.
Dispersion Properties	See solubility in water.
Solubility	Easily soluble in cold water. Partially soluble in hot water.

**Section X- Stability and Reactivity**

Stability and Reactivity	The product is stable.
Conditions to avoid	Reacts violently with water especially when water is added to the product. Heating may cause an explosion. Keep away from heat (Sodium Azide only)
Materials to avoid	Not available.
Hazardous Polymerization	Will not occur.
Hazardous Decomposition Products	Not applicable.

**Section XI- Toxicological Information**

Toxicity to Animals	LD50: Not available. LC50: Not available.
Chronic Effects on Humans	Not available.
Other Toxic Effects on Humans	Slightly hazardous in case of eye contact (irritant), of ingestion, of inhalation (lung irritant). Non-hazardous in case of ingestion. Non-corrosive to the eyes. Non-corrosive for lungs.
Special Remarks on Toxicity to Animals	Not available.
Special Remarks on Chronic Effects on Humans	Not available.
Special Remarks on Other Toxic Effects on Humans	Not available.

**Section XII- Ecological Information**

Mobility	Not available.
Persistence/degradability	Not available.
Bioaccumulative potential	Not available.
Ecotoxicity	Not available.
Germany water class	VCI WGK: No products were found.

**Section XIII- Disposal Considerations**

Waste Information	Waste must be disposed of in accordance with federal, state and local environmental control regulations.
Waste Stream	Not available.

Consult your local or regional authorities.

**Section XIV- Transport Information**

Contact the supplier for all information regarding the proper transportation method for this material.

**Section XV- Regulatory Information**

**Label Requirements (Europe)**

This product is not classified according to the EU regulations.

**HCS Classification**

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U.S. Federal Regulations

TSCA B(b) inventory: Sodium Azide; Milli-Q Water  
 TSCA B(d) H and S data reporting: Sodium Azide  
 SARA 302/304/311/312 extremely hazardous substances: Sodium Azide  
 SARA 302/304 emergency planning and notification: Sodium Azide  
 SARA 302/304/311/312 hazardous chemicals: Sodium Azide  
 SARA 311/312 MSDS distribution- chemical inventory- hazard identification: Sodium Azide: immediate health hazard

Clean Water Act (CWA) 307: No products were found.  
 Clean Water Act (CWA) 311: No products were found.  
 Clean air act (CAA) 112 accidental release prevention: No products were found.  
 Clean air act (CAA) 112 regulated flammable substances: No products were found.  
 Clean air act (CAA) 112 regulated toxic substances: No products were found.

WHMIS (Canada)

Not controlled under WHMIS (Canada).  
 CEPA DSL; Sodium Azide; Milli-Q Water  
 CEPA NDSL: Sodium Azide

International Regulations

EINECS  
 DSCL (EEC)  
 International Lists

Not available.  
 This product is not classified according to the EU regulations.  
 Australia (NICNAS): Sodium Azide; Milli-Q Water  
 Germany water class: Sodium Azide  
 Korea (TCCL): Sodium Azide; Milli-Q Water  
 Philippines (RA6969): Sodium Azide; Milli-Q Water  
 Pennsylvania RTK: Sodium Azide: (environmental hazard, generic environmental hazard)  
 Florida: Sodium Azide  
 Minnesota: Sodium Azide  
 Massachusetts RTK: Sodium Azide  
 New Jersey: Sodium Azide  
**California prop. 65: No products were found.**

State Regulations

**Section XVI- Other Information**

**Hazardous Material Information System (U.S.A)**

Health 1  
 Fire Hazard 0  
 Reactivity 0  
 Personal Protection g

**National Fire Protection Association (U.S.A)**

Health 1  
 Fire Hazard 0  
 Reactivity 0  
 Specific Hazard

References

Not available.

Full text of R-Phrases referenced under headings 2 and 3:

No hazardous ingredient.

Intended Use

Intended Use Refer to the instruction booklet for proper and intended use. Otherwise, contact supplier for specific applications.

Disclaimer: The information, data, and recommendations contained herein are believed to be accurate. Genisphere, Inc., makes no warranty of any kind whatever with respect thereto and disclaims all liability from reliance thereon. We reserve the right to revise this MSDS periodically as new information becomes available.