



MATERIAL SAFETY DATA SHEET

Section 1 - IDENTITY OF THE MANUFACTURER AND PRODUCT

PRODUCT IDENTITY: Shigella Sample Diluent

PRODUCT CODE #: 9809

MANUFACTURER ADDRESS: Biomerica, Inc.
17571 Von Karman Avenue
Irvine, CA 92614, USA

Telephone: 949-645-2111
Fax: 949-553-1231
E-mail: bmra@biomerica.com

Telephone Number in Case of Emergency: 800 535-5053 - InfoTrac 24 hours

Section 2 - COMPOSITION AND INGREDIENT INFORMATION

Chemical Nature of the Preparation: Stable

Dangerous Substances in the Preparation: Hydrochloric Acid, Sodium Azide, Trizma Base

Chemical	CAS#	EC #	Designation	% w/w
Sodium Chloride	7647-14-5	231-598-3	Chemical Hazard	3%
Hydrochloric Acid	7647-01-0	231-595-7	Harmful, Corrosive	<0.1 %
Sodium Azide (in 1X)	26628-22-8	247-852-1	Highly Toxic	<0.1 %
Trizma Base	77-86-1	201-064-4	Chemical Hazard	< 2%

Section 3 - HAZARDS IDENTIFICATION

Chemical hazard:

Eye: Causes eye irritation.

Skin: May cause skin irritation.

Ingestion: Ingestion of large amounts may cause gastrointestinal irritation. May cause gastric disturbances and electrolytic imbalance. Ingestion of large amounts of sodium chloride may cause nausea, and vomiting, rigidity or convulsions. Continued exposure can produce coma, dehydration and internal organ congestion.

Inhalation: No irritation from inhalation expected.

Chronic: No information found.

Section 4 - FIRST AID MEASURES

Skin Contact: Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.

Eye Contact: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

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Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Ingestion: Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.

Section 5 -	FIRE AND EXPLOSION DATA
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Suitable Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or chemical foam.

Extinguishing Media Not to be Used: Fire extinguishers containing ammonium compounds.

Special Fire Fighting Procedures: Wear NIOSH approved self-contained breathing apparatus (SCBA) when either in confined areas or exposed to combustion products. Use water to cool fire exposed containers.

Unusual Fire and Explosion Hazards: Material does not burn but, at temperatures exceeding 240°C it can undergo a slow self-sustaining decomposition producing heat and toxic gases.

NFPA Rating: (estimated) Health: 2; Flammability: 0; Instability: 0

Section 6 -	MEASURES IN CASE OF ACCIDENTAL SPILL
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Body Precautions: Wear gloves, impermeable shoe covers and a laboratory coat.

Environmental Precautions: Contain the spill to the smallest area possible. Sweep up spill avoiding dust generation.

Cleaning Measures: Take care not to contaminate body, avoid inhalation of dust. Dispose of all contaminated trash in accordance with local regulations.

Section 7 -	HANDLING AND STORAGE
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Handling: Take care not to ingest or inhale.

Storage: Store product at room temperature.

Section 8 -	EXPOSURE CONTROL AND PERSONAL PROTECTION
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Body Protection: Wear laboratory coat.

Respiratory protection: In case of fire, wear self-contained breathing apparatus.

Hand Protection: Wear non-permeable rubber, neoprene, latex or nitrile disposable gloves. Change gloves when they become contaminated.

Eyes Protection: Wear safety glasses or goggles when a splash hazard exists.

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Others: None known.

Section 9 -	PHYSICAL AND CHEMICAL CHARACTERISTICS
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Physical State:	Solid
Appearance:	white
Odor:	none reported
pH:	Not available.
Vapor Pressure:	Not available.
Vapor Density:	Not available.
Evaporation Rate:	Not available.
Viscosity:	Not available.
Boiling Point:	Not available.
Freezing/Melting Point:	Not available.
Decomposition Temperature:	Not available.
Solubility:	Soluble.
Specific Gravity/Density:	Not available.
Molecular Formula:	Mixture
Molecular Weight:	Not available.

Section 10 -	STABILITY AND REACTIVITY DATA
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Stability:	Stable in Normal Conditions.
Conditions to Avoid:	Dust generation, excess heat.
Materials to Avoid:	Potassium chloride is incompatible with potassium permanganate. Sodium chloride is incompatible with dichloromaleic anhydride + urea, lithium, and nitrogen compounds. Potassium phosphate dibasic and monobasic may react violently with strong acids.
Hazardous Decomposition Products:	Oxides of phosphorus, sodium oxide, oxides of potassium.

Section 11 -	TOXICOLOGY INFORMATION
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Effects of Dangerous Substances at the Concentrations Present in the Preparation:

<u>Acute Exposure:</u>	May cause irritation.
<u>Harmful Effects:</u>	Chemical hazard may cause irritation to the eye following optical exposure. Dermal exposure can cause severe irritation. Inhalation may cause irritation to the nose, mouth, throat and lungs. Ingestion may cause damage to the gastrointestinal tract.
<u>Sensitizing Effects:</u>	None known.
<u>Carcinogenic/Mutagenic/Teratogen Effects:</u>	None known.

Section 12 -	DISPOSAL CONSIDERATIONS
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Disposal: Dispose according to current regional and national rules.

Section 13 -	TRANSPORTATION INFORMATION
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Road / Railway Haulage ADR/RID:	Not restricted.
Sea Freight IMO (IMDG):	Not restricted.
Air Freight IATA (ICAO):	Not restricted.
UN Number:	Not applicable.

Section 14 -	OTHER REGULATORY INFORMATION
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Classification: This preparation is classified and labeled according to EEC Directive n. 88/379.

Symbols of Danger:	None.
"R" Phrases Indicating Specific Risks:	Not available.
"S" Phrases Indicating Caution:	Not available.

Section 15 -	OTHER INFORMATION
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Recommended Use: For use as a buffer when using Whole Blood Rapid Tests. Not for use on or in humans and animals.

The information contained herein is believed to be correct as of the date of issue but is provided without warranty of any kind. Biomerica shall not be held liable for any damage resulting from handling or from contact with the above product. The recipient is responsible for observing any applicable laws and guidelines. Use the product according to the package insert.