

**SAFETY DATA SHEET****Section 1: PRODUCT AND COMPANY IDENTIFICATION****Product Identifier(s):** Botulism Selective Medium (BSM) AS-223, 224**Recommended Use:** In vitro diagnostics, laboratory chemicals/culture media for cultivation of microorganisms  
**Restrictions on Use:** No information available**Manufacturer:** Anaerobe Systems  
15906 Concord Circle Morgan Hill, CA 95037  
(408) 782-7557**Emergency Contact:** CHEMTREC (800) 424-9300**Section 2: HAZARDS IDENTIFICATION****Hazard Classification:** OSHA 29 CFR 1910.1200, CLP/GHS Regulation (EC) 1272/2008  
Not classified as a hazardous substance or mixture.**Precautionary Statement:** Not a hazardous substance or mixture**Signal Word, Pictogram:** None**GHS Label Elements:** Product contains no substances considered to be hazardous, at their given concentrations.**Hazards Not Otherwise Classified:** None**Section 3: COMPOSITION / INFORMATION on INGREDIENTS**

This product is a mixture of substances for culture media and contains no hazardous constituents, or the concentration of all chemical constituents is below the regulatory threshold limits described in the OSHA Hazard Communication Standard 29 CFR 1910.1200 and Regulation (EC) No. 1272/2008. Major components are only listed for reference.

<b>Principle Components:</b>	<b>%</b>	<b>CAS No.</b>
Deionized water	> 90	7732-18-5
Heart Infusion Broth w/v	2.5%	-
Egg Yolk Suspension v/v	4.0%	-
Cycloserine v/v	0.025%	68-41-7
Agar w/v	2.0%	9002-18-0
Other Components:	< 2.0	-

**Section 4: FIRST AID MEASURES**

Description of first aid measures:

- If on skin: Wash affected area with plenty of soap and water.
- If in eyes: Immediately wash out with plenty of water for 10-15 minutes. Irrigate eyes thoroughly while lifting eyelids.
- If swallowed: Rinse mouth with water (do not swallow). Never make an unconscious person vomit or drink fluids.
- If inhaled: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
- Medical attention: If skin/eye irritation or a rash occurs, if experiencing respiratory symptoms, or if you feel unwell after exposure, get medical advice/attention.

Most important symptoms and effects, both acute and delayed:

May cause irritation; no further relevant information available.

Indication of any immediate medical attention and special treatment needed:

Treat symptomatically; no further relevant information is available.

**Section 5: FIRE FIGHTING MEASURES**

- Extinguishing media: Product in itself is not flammable. Use extinguishing measures that are appropriate to the surrounding fire and environment.
- Special hazards arising from the substance or mixture:  
Small volumes of decomposition products during a fire may include carbon oxides.
- Protective equipment and precautions for firefighters:  
Use protective equipment suitable to extinguish surrounding fire.

**Section 6: ACCIDENTAL RELEASE**

Personal precautions, protective equipment and emergency procedures:

Wear protective clothing as per section 8.  
Wash thoroughly after dealing with spillage.

Methods and material for containment and cleaning up:

Absorb spillage in inert material.  
Place in sealable container, seal and label.  
Wash spill site (cover drains) after material pick up is complete. Seek expert advice for removal and disposal of all contaminated materials and wastes.

**Section 7: HANDLING AND STORAGE**

Precautions for safe handling:

- Avoid inhalation and contact with skin and eyes.
- Eyewash stations/bottles should be available.
- Do not eat, drink or smoke when using this product.
- Wash hands thoroughly after using product.

Conditions for safe storage, including any incompatibilities:

- Store at temperatures within 20-25°C (68-77°F).
- Keep container tightly closed; protect from light.

**Section 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION**

Control parameters: Contains no substances with occupational permissible exposure limit values (PEL), or Threshold Limit Values (TLV).

Engineering controls: Eye wash station and safety shower should be available.

Individual protection: Good laboratory practice and usual precautionary measures for handling chemicals should be followed. Select protective clothing specifically for the workplace after risk assessment:

Hands: Handle inoculated media with gloves. Dispose contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash/dry hands.

Eye protection: Face shield and/or safety glasses if splash potential exists

Body: Protective work clothing (laboratory coat)

Respirator- not required

**Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	Solid, yellow, opaque	Explosive limits:	No data available
Odor:	No data available	Flammability limits:	No data available
Odor threshold:	No data available	Vapor pressure, density:	No data available
pH:	7.4 +/- 0.3 @ 25° C	Relative density:	No data available
Melting/freezing point:	No data available	Water solubility:	Water soluble
Boiling point/range:	No data available	Partition coefficient:	No data available
Flash point:	No data available	Auto-ignition temp:	No data available
Evaporation rate:	No data available	Decomposition temp:	No data available
Flammability (solid/gas):	No data available	Viscosity:	No data available

**Section 10: STABILITY AND REACTIVITY**

Reactivity: No data available  
Chemical stability: Considered safe under normal conditions  
Hazardous reactions: No hazardous reactions if used for its intended purpose  
Conditions to avoid: No data available  
Incompatible materials: Oxidizing substances  
Hazardous decomposition products: No data available; see Section 5.

**Section 11: TOXICOLOGICAL INFORMATION**

Information on toxicological effects:

Likely route of exposure: Eye contact, skin contact, ingestion

Symptoms: Slight mucosal irritation

Delayed and immediate effects and also chronic effects from short and long term exposure:

Sensitization: No data available

Reproductive toxicity: No data available

Aspiration hazard: No data available

Mutagenic effects: No data available

Carcinogenicity (IARC, NTP, OSHA, ACGIH):

No component of this product presents at levels greater than or equal to 0.1% is identified as a probable, possible or known/confirmed human carcinogen.

STOT\* -single exposure: Not classified

STOT\* -repeated exposure: No data available

(\* - specific target organ toxicity)

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Section 12: ECOLOGICAL INFORMATION**

Exotoxicity: No data available

Persistence/degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

Other adverse effects: The ecological effects have not been thoroughly investigated but currently none have been identified.

**Section 13: DISPOSAL CONSIDERATIONS**

The information presented only applies to the material as supplied. The considerations may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the final waste generated to determine the proper disposal methods in compliance with applicable local, regional and national laws and regulations.

Waste disposal: This material as supplied is not regarded as hazardous waste.  
If inoculated with microorganisms, autoclave or incinerate prior to disposal.

Contaminated package: Dispose of as unused product

#### Section 14: TRANSPORT INFORMATION

UN Number: Not classified as hazardous for transport  
UN Proper Shipping Name: Not applicable  
Transport Hazard Class: Not applicable  
Packing Group: Not applicable  
Environmental Hazard: Not classified  
Transport in bulk: Not classified  
Land Transport (DOT): Not dangerous goods; this material is considered non-hazardous for transport.  
Road/Rail (ADR/RID): Not dangerous goods; this material is considered non-hazardous for transport.  
Air Transport (IATA): Not dangerous goods; this material is considered non-hazardous for transport.  
Sea Transport (IMDG): Not dangerous goods; this material is considered non-hazardous for transport.

#### Section 15: REGULATORY INFORMATION

Safety, health and environmental regulations specific to this substance or mixture:

SARA Section 302 (required reporting):

No chemicals in this material are subject to the reporting requirements of SARA, Title III, Section 302

SARA Section 313 (specific toxic chemical listings):

This material does not contain any chemical components with known CAS numbers that exceed the threshold (de minimis) reporting levels established by SARA Title III, Section 313

SARA Section 311/312 (acute/chronic health, fire, reactive, sudden release or pressure hazards):

No SARA hazards.

TSCA (Toxic Substances Control Act):

Substance is not listed.

California Proposition 65:

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Carcinogenic categories

NTP (National Toxicology Program)

Substance is not listed.

TLV (Threshold Limit Value established by ACGIH)

Substance is not listed.

Product related hazard information:

Observe the general safety regulations when handling chemicals.

Water hazard class:  
Generally not hazardous for water.

<b>Section 16: OTHER INFORMATION</b>
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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantees of the properties of the product. Anaerobe Systems shall not be held liable for any damage resulting from handling or from contact with the above product.

Revised: 10/23/17