

Safety Data Sheet

Section 1: Identification

- 1.1. Product identifier
 - 1.1.1. Product Name: Lactose Broth
 - 1.1.2. Product Number: M173
- 1.2. Recommended use of product
 - 1.2.1. For the cultivation of *Salmonella* and coliform bacteria. Conforms to FDA/BAM formulation.
- 1.3. Company information
 - 1.3.1. Manufacturer: Millennium LifeSciences, Inc.
 - 1.3.2. Address: 970 E. Orangethorpe Ave. Unit A
Anaheim, CA 92801
 - 1.3.3. Phone: 714.773.1726
 - 1.3.4. Emergency phone: 714.773.1726
 - 1.3.5. Email: msds@culturemediaconcepts.com

Section 2: Hazard(s) Identification

- 2.1. Classification of the substance or mixture
 - 2.1.1. Classification: This product contains no hazardous constituents, or the concentration of all chemical constituents are below the regulatory threshold limits described by OSHA Hazard Communication Standard 29 CFR 1910.1200 and the European Directive 91/155/EEC, and 93/112/EC.
 - 2.1.2. Additional information
- 2.2. Label
 - 2.2.1. Signal word: None
 - 2.2.2. Symbols: None
 - 2.2.3. Hazard phrases: None
 - 2.2.4. Precautionary phrases
 - 2.2.4.1. Keep container tightly closed.
 - 2.2.4.2. Do not breathe dust.
 - 2.2.4.3. Do not get in eyes, on skin, or on clothing.
- 2.3. Other hazards:
 - 2.3.1. May cause mild irritation of the eyes and skin.

Section 3: Composition/Information on Ingredients

- 3.1. Substances
- 3.2. Mixtures
 - 3.2.1. This product does not contain any hazardous substances at the concentration limits given in the Regulation (EC) No. 1272/2008 and OSHA Hazard Communication Standard 29 CFR 1910.1200

Section 4: First-Aid Measures

- 4.1. First-aid measures
 - 4.1.1. Contact with skin
 - 4.1.1.1. Remove contaminated clothing. Wash affected area with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Contaminated clothing should be laundered before reuse.
 - 4.1.2. Contact with eyes

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Section 4: First-Aid Measures Continued

- 4.1.2.1. If substance has gotten into eyes, immediately wash out with plenty of water for at least 15 minutes. Irrigate eyes thoroughly while lifting eyelids. Seek medical advice if necessary.
- 4.1.3. Ingestion
 - 4.1.3.1. Rinse mouth with water. Do not swallow. If swallowed, wash mouth out with water provided person is conscious. Seek medical attention immediately.
- 4.1.4. Inhalation
 - 4.1.4.1. If inhaled, supply fresh air or oxygen. Seek medical attention. If breathing is difficult, give oxygen. In case of unconsciousness, place patient on side position for transportation. Call a poison center or doctor/physician if you feel unwell.
- 4.2. Most important symptoms and effects, both acute and delayed
 - 4.2.1. May cause irritation.
- 4.3. Indication of any immediate medical attention and special treatment needed
 - 4.3.1. Treat symptomatically.

Section 5: Fire-Fighting Measures

- 5.1. Suitable Extinguishing Media
 - 5.1.1. In case of fire: use foam, carbon dioxide, or dry agent for extinction.
- 5.2. Special hazards arising from the substance or mixture
 - 5.2.1. Smoke from fires is toxic. Take precautions to protect personnel from exposure. Decomposition from products may include carbon oxides. May form explosive dust/air mixtures.
- 5.3. Recommendations for firefighters
 - 5.3.1. Firefighters should wear protective equipment and self-contained breathing apparatus. Keep container(s) exposed to fire cool, by spraying with water.

Section 6: Accidental Release Measures

- 6.1. Personal precautions, protective equipment, and emergency procedures
 - 6.1.1. Avoid raising dust.
 - 6.1.2. Remove contaminated clothing.
 - 6.1.3. Avoid inhalation and contact with skin and eyes.
 - 6.1.4. Wear self-containing breathing apparatus, rubber boots, and heavy rubber gloves.
- 6.2. Environmental Precautions
 - 6.2.1. Shut off all sources of ignition, ventilate spill area.
- 6.3. Methods and materials used for containment
 - 6.3.1. Place in sealable container. Seal containers and label them.
- 6.4. Cleanup Procedures
 - 6.4.1. Contact safety officer and ventilate area. Absorb spill with inert material, including dry-lime, sand, or soda ash, then place into a chemical waste container using non-sparking tools. Wash spill site after material pickup is complete.

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Section 7: Handling and Storage

- 7.1. Precautions for safe handling
 - 7.1.1. Do not breathe dust.
 - 7.1.2. Do not eat, drink, or smoke when using this product.
 - 7.1.3. Avoid contact with eyes, skin, and clothing.
 - 7.1.4. Eyewash bottles should be available.
 - 7.1.5. Ensure adequate ventilation.
- 7.2. Conditions for safe storage, including any incompatibilities
 - 7.2.1. Store at temperatures not exceeding 30°C/86°F. Keep cool.
 - 7.2.2. Store in a well-ventilated place. Keep container tightly closed.
 - 7.2.3. Store in a dry place.
 - 7.2.4. Keep away from oxidizing substances.
 - 7.2.5. Keep away from acid.
- 7.3. Specific end use(s)
 - 7.3.1. For the cultivation of Salmonella and coliform bacteria. Conforms to FDA/BAM formulation.

Section 8: Exposure Controls/Personal Protection

- 8.1. Engineering Controls
 - 8.1.1. Do not use compressed air by filling, discharging, or handling the product. Proper ventilation, safety shower, and eye bath required.
- 8.2. Personal Protective Equipment
 - 8.2.1. Wear suitable protective clothing such as gloves, safety glasses, and lab coat.
 - 8.2.2. No respiratory protection is needed if ventilation/extraction is adequate, otherwise wear approved dust mask, N95 (US) or type FFP1 (EN143) dust masks.
 - 8.2.3. Wear protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374.
 - 8.2.4. Wear safety glasses approved to standard for NIOSH (US) or EN 166.
- 8.3. Exposure controls
 - 8.3.1. Eyewash bottles should be available.

Section 9: Physical and Chemical Properties

- 9.1. Information on physical and chemical properties
 - 9.1.1. Appearance: light beige, free-flowing, homogeneous
 - 9.1.2. Odor: No information available.
 - 9.1.3. Odor threshold: No information available.
 - 9.1.4. pH: 6.7-7.1
 - 9.1.5. Melting point/Range: No information available.
 - 9.1.6. Boiling point/Range: Not determined
 - 9.1.7. Flashpoint: No information available.
 - 9.1.8. Evaporation Rate: No information available.
 - 9.1.9. Flammability: No information available.
 - 9.1.10. Vapor Pressure: No information available.
 - 9.1.11. Vapor Density: No information available.
 - 9.1.12. Relative Density: No information available.
 - 9.1.13. Solubility in water: Completely soluble in water.
 - 9.1.14. Partition Coefficient (n-Octanol/Water): No information available.

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Section 9: Physical and Chemical Properties Continued

- 9.1.15. Autoignition Temperature: No information available.
- 9.1.16. Decomposition temperature: No information available.
- 9.1.17. Explosive Properties: Product does not present an explosion hazard
- 9.1.18. Viscosity: No information available.
- 9.2. Other information:
 - 9.2.1. No information available.

Section 10: Stability and Reactivity

- 10.1. Reactivity
 - 10.1.1. No information available.
- 10.2. Chemical stability
 - 10.2.1. Considered stable under normal conditions.
- 10.3. Possibility of hazardous reactions
 - 10.3.1. No hazardous reactions known if used for its intended purpose.
- 10.4. Conditions to avoid
 - 10.4.1. Avoid strong oxidizing agents and strong bases.
- 10.5. Incompatible materials
 - 10.5.1. Incompatible with strong oxidizing agents and strong bases.
- 10.6. Hazardous decomposition products
 - 10.6.1. Decomposition products may include carbon oxides.

Section 11: Toxicological Information

- 11.1. Information on toxicological effects
 - 11.1.1. No experimental data available
 - 11.1.2. Contact with skin
 - 11.1.2.1. May cause mild irritation
 - 11.1.3. Contact with eyes
 - 11.1.3.1. May cause mild irritation
 - 11.1.4. Inhalation:
 - 11.1.4.1. May cause coughing
 - 11.1.5. Carcinogenicity
 - 11.1.5.1. No evidence of carcinogenic effects
 - 11.1.6. Mutagenicity
 - 11.1.6.1. No evidence of mutagenic effects
 - 11.1.7. Teratogenicity
 - 11.1.7.1. No information available.

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Section 12: Ecological Information

- 12.1. Toxicity: No information available.
- 12.2. Persistence and degradability: No information available.
- 12.3. Bioaccumulation Potential: No information available.
- 12.4. Mobility in soil: No information available.
- 12.5. Results of PBT and vPvB assessment
 - 12.5.1. Not a PBT according to REACH annex XIII
 - 12.5.2. PBT/vPvB assessment not available
- 12.6. Other adverse effects
 - 12.6.1. To the best of our knowledge, the properties of this material have not been fully evaluated
 - 12.6.2. On available data, substance is not harmful to the environment

Section 13: Disposal Considerations

- 13.1. Waste treatment methods
 - 13.1.1. Disposal should be in accordance with local, state, or national legislation.
- 13.2. Classification (REACH)
 - 13.2.1. Waste Codes in accordance with European Waste Catalogue (EWC) are origin-defined. Since this product is used in several industries, no Waste Code can be provided by the supplier. The Waste Code should be determined in arrangement with your waste disposal partner or the responsible authority.

Section 14: Transport Information

- 14.1. UN number: Not classified as hazardous for transport.
 - 14.2. UN proper shipping name: Not available.
 - 14.3. Transport hazard class(es): Not available.
 - 14.4. Packing group number: Not available.
 - 14.5. Environmental hazards: Not classified.
 - 14.6. Guidance on transport in bulk (according to Annex II of MARPOL 73/78 and IBC code): Not classified.
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Section: 15: Regulatory Information

- 15.1. Safety, health, and environmental regulations/legislation specific for the substance or mixture
- 15.1.1. This Safety Data Sheet is provided in compliance with the EC Directive 1907/2006-453/2010 and OSHA Hazard Communication Standard 29 CFR 1910.1200.
 - 15.1.2. Regulation (EC) No. 1272/2008 on the classification, labelling, and packaging of substances and mixtures (CLP Regulation) applies in Europe.
- 15.2. Chemical Safety Assessment
- 15.2.1. No information available
- 15.3. United States Regulatory Information
- 15.3.1. SARA 302 Components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
 - 15.3.2. SARA 313 Components: The 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.
 - 15.3.3. SARA 311/312: No SARA Hazards.

Section 16: Other Information

- 16.1. This document is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. These suggestions should not be confused with state, municipal or insurance requirements, and constitute NO WARRANTY. Millennium LifeSciences, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.