



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. Culture media used 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. Fax: **714.773.1793**
 - 1.3.5. Email: **info@mlscmc.com**

SECTION 2: HAZARD(S) IDENTIFICATION

- 2.1. Classification of the substance or mixture
 - 2.1.1. Classification (Regulation (EC) No. 1272/2008) [CLP/GHS]:
 - 2.1.1.1. Not classified as hazardous for supply
 - 2.1.2. Classification (67/548/EEC, 1999/45/EC) (OSHA 29 CFR 1910.1200):
 - 2.1.2.1. Not classified as hazardous for supply
 - 2.1.3. Additional information:
 - 2.1.3.1. For full text of R-phrases and Hazard- and EU Hazard-statements: see section 16
- 2.2. Label
 - 2.2.1. Signal word:
 - 2.2.1.1. None
 - 2.2.2. Symbols:
 - 2.2.2.1. None
 - 2.2.3. Hazard phrases:
 - 2.2.3.1. 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. Mildly irritating to skin and eyes
 - 2.3.2. Mildly irritating to respiratory system

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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

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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:
 - 4.1.2.1. If substance has gotten into eyes, immediately wash out with plenty of water for at least 15 minutes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, 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). Never make an unconscious person vomit or drink fluids. If medical advice is needed, have product container or label at hand.
 - 4.1.4. Inhalation:
 - 4.1.4.1. If breathing is difficult, remove victim to fresh air and keep at rest position comfortable for breathing. 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. Product is non-flammable under normal conditions of storage, manipulation and use. In the case of inflammation use foam, carbon dioxide, or dry agent for extinction.
- 5.2. Special hazards arising from the substance or mixture:
 - 5.2.1. Decomposition products may include carbon oxides.
 - 5.2.2. Smoke from fires is toxic. Take precautions to protect personnel from exposure.
- 5.3. Recommendations for firefighters:
 - 5.3.1. Keep container(s) exposed to fire cool, by spraying with water.
 - 5.3.2. Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

SECTION 6: ACCIDENTAL RELEASE MEASURES

- 6.1. Personal precautions, protective equipment, and emergency procedures:
 - 6.1.1. Avoid inhalation and contact with skin and eyes.
 - 6.1.2. Avoid raising dust.
 - 6.1.3. Remove contaminated clothing.
 - 6.1.4. Wear protective clothing as per section 8.
 - 6.1.5. Wash thoroughly after dealing with spillage.
- 6.2. Environmental Precautions:

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- 6.2.1. Do not allow to enter public sewers and watercourses.
- 6.2.2. Shut off all sources of ignition, ventilate spill area.
- 6.2.3. Avoid scattering in the environment.

SECTION 6: ACCIDENTAL RELEASE MEASURES (CONTINUED)

- 6.3. Methods and materials used for containment:
 - 6.3.1. It is recommended: Sweep up and shovel product or other means and place in container for reuse (preferred) or disposal.
- 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.

SECTION 7: HANDLING AND STORAGE

- 7.1. Precautions for safe handling:
 - 7.1.1. Do not breathe dust.
 - 7.1.2. Avoid contact with skin and eyes.
 - 7.1.3. Do not eat, drink, or smoke when using this product.
 - 7.1.4. Ensure adequate ventilation.
 - 7.1.5. Eyewash bottles should be available.
 - 7.1.6. Wash hands thoroughly after using this substance.
- 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.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1. Engineering Controls:
 - 8.1.1. This product does not contain any hazardous materials with occupational exposure limits established by the region-specific regulatory bodies.
- 8.2. Personal Protective Equipment:
 - 8.2.1. Wear suitable protective clothing such as gloves, safety glasses, and lab coat. No respiratory protection is needed if ventilation/extraction is adequate, otherwise wear approved dust mask, NIOSH N95 (US) or type FFP1 (EN143) dust masks.
 - 8.2.2. Wear protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374.
 - 8.2.3. Wear safety glasses approved to standard for NIOSH (US), ANSI Z87 or EN 166.



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Gloves

Safety Glasses

Lab Coat

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: Homogeneous, free-flowing powder, light-beige

9.1.2. Odor: No information available.

9.1.3. Odor threshold: No information available.

9.1.4. pH: Not applicable

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.

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 hazardous reactions are expected if following technical instructions of storing chemicals.

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 contact with moisture

10.4.2. Keep away from heat and sources of ignition

10.5. Incompatible materials:

10.5.1. Incompatible with strong oxidizing agents

10.6. Hazardous decomposition products:

10.6.1. Decomposition products may include carbon oxides

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SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects:

- 11.1.1. The experimental information related to the toxicological properties of the product itself is not available.
- 11.1.2. Contact with skin:
 - 11.1.2.1. May cause redness and irritation
- 11.1.3. Contact with eyes:
 - 11.1.3.1. May cause redness and irritation

SECTION 11: TOXICOLOGICAL INFORMATION (CONTINUED)

- 11.1.4. Ingestion:
 - 11.1.4.1. May cause irritation of the throat
- 11.1.5. Inhalation:
 - 11.1.5.1. May cause coughing
- 11.1.6. Carcinogenicity:
 - 11.1.6.1. No evidence of carcinogenic effects
- 11.1.7. Mutagenicity:
 - 11.1.7.1. No evidence of mutagenic effects
- 11.1.8. Teratogenicity:
 - 11.1.8.1. No information available

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity:

- 12.1.1. The experimental information related to the eco-toxicological properties of the product itself is not available.

12.2. Persistence and degradability:

- 12.2.1. No information available.

12.3. Bioaccumulation Potential:

- 12.3.1. No information available.

12.4. Mobility in soil:

- 12.4.1. 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, the 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.
- 13.1.2. Do not discharge into drains or the environment, dispose to an authorized waste collection point

13.2. Waste management (disposal and evaluation):

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- 13.2.1. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

SECTION 14: TRANSPORT INFORMATION

- 14.1. UN number:
14.1.1. Not classified as hazardous for transport.
- 14.2. UN proper shipping name:
14.2.1. Not available.
- 14.3. Transport hazard class(es):

SECTION 14: TRANSPORT INFORMATION (CONTINUED)

- 14.3.1. Not available.
- 14.4. Packing group number:
14.4.1. Not available.
- 14.5. Environmental hazards:
14.5.1. Not classified.
- 14.6. Guidance on transport in bulk (according to Annex II of MARPOL 73/78 and IBC code):
14.6.1. Not classified.
- 14.7. Special precautions:
14.7.1. No information available.
- 14.8. DOT
14.8.1. Not applicable
- 14.9. Road/Rail (ADR/RID)
14.9.1. Not applicable
- 14.10. Sea (IMDG)
14.10.1. Not applicable
- 14.11. Air (ICAO/IATA)
14.11.1. Not applicable

SECTION: 15: REGULATORY INFORMATION

- 15.1. Safety, health, and environmental regulations/legislation specific for the substance or mixture:
- 15.1.1. Candidate substances for authorization under Regulation (EC) 1907/2006 (REACH):
15.1.1.1. Non-applicable
- 15.1.2. Substances included in Annex XIV of REACH ("Authorisation List") and sunset date:
15.1.2.1. Non-applicable
- 15.1.3. Regulation (EC) 1005/2009, about substances that deplete the ozone layer:
15.1.3.1. Non-applicable
- 15.1.4. Active substances for which a decision of non-inclusion onto Annex I (Regulation (EU) No. 528/2012):
15.1.4.1. Non-applicable
- 15.1.5. REGULATION (EU) No. 649/2012, in relation to the import and export of hazardous chemical products:
15.1.5.1. Non-applicable

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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.

15.3.4. Toxic Substance Control Act (TSCA): All components of this material are either listed or exempt from listing on the TSCA Inventory.

15.3.5. CERCLA: Not applicable.

15.3.6. State Right-to-Know

15.3.6.1. Not applicable.

15.3.7. Chemicals Known to the State of California to Cause Cancer:

15.3.7.1. This product does not contain a chemical requiring a warning under California Prop. 65.

SECTION 15: REGULATORY INFORMATION (CONTINUED)

15.3.8. Chemicals known to the State of California to Cause Reproductive Toxicity:

15.3.8.1. This product does not contain a chemical requiring a warning under California Prop. 65.

15.4. Canada

15.4.1. WHMIS hazard class:

15.4.1.1.1. Non-controlled

15.4.2. Canada Controlled Products Regulation:

15.4.2.1. This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

SECTION 16: OTHER INFORMATION

16.1. Legislation related to safety data sheets:

16.1.1. 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.

16.1.2. Regulation (EC) No. 1272/2008 on the classification, labelling, and packaging of substances and mixtures (CLP Regulation) applies in Europe.

16.2. 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.