



SAFETY DATA SHEET

Section 1: Identification

- 1.1. Product identifier
- 1.1.1. Product Name: **Lethen Broth, Modified**
- 1.1.2. Product Number: **V185, V185-09, V185-90, V185-99**
- 1.2. Recommended use of product
- 1.2.1. Used for Microbiology and other laboratory processes.
- 1.3. Company information
- 1.3.1. Manufacturer: Millennium LifeSciences, Inc.
CultureMediaConcepts®
- 1.3.2. Address: 970 E. Orangethorpe Ave. Unit A
Anaheim, CA 92801 USA
- 1.3.3. Phone: 1.714.773.1726
- 1.3.4. Emergency phone: 1.714.773.1726
- 1.3.5. Email: info@mlscmc.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.
- 2.2. GHS Label elements, including precautionary statements
- 2.2.1. Not a hazardous substance or mixture.
- 2.3. Other hazards:
- 2.3.1. None

Section 3: Composition/Information on Ingredients

- 3.1. Substances
- 3.1.1. Not relevant (mixture).
- 3.2. Mixtures
- No components need to be disclosed according to the applicable regulations.

Chemical	Concentration	CAS No.	EC No.	H-Statements	Symbols

Section 4: First-Aid Measures

- 4.1. First-aid measures
- 4.1.1. General
- 4.1.1.1. In case of doubt, or when symptoms persist, seek medical attention. In general, this product is not hazardous to humans or animals, but like any other chemical, it should be treated with care, respect, and Current Good Manufacturing Practicing.
- 4.1.2. Contact with skin
- 4.1.2.1. 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.
- 4.1.3. Contact with eyes



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- 4.1.3.1. If substance has gotten into eyes, immediately wash out with plenty of water for at least 15 minutes. Remove contact lenses. Irrigate eyes thoroughly while lifting eyelids. Seek medical advice if necessary.
- 4.1.4. Ingestion
 - 4.1.4.1. If swallowed, wash mouth out with water, make the victim drink (2 glasses at most) provided person is conscious. Seek medical attention immediately.
- 4.1.5. Inhalation
 - 4.1.5.1. If breathing is difficult, remove victim to fresh air and keep at rest in a 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. The most important known symptoms are described in the labeling (see Section 2.2) and/or in Section 11.
- 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. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- 5.2. Unsuitable extinguishing media
 - 5.2.1 For this substance/mixture no limitations of extinguishing agents are given.
- 5.3. Special hazards arising from the substance or mixture
 - 5.3.1. Nature of decomposition products not known
 - 5.3.2. Not combustible.
- 5.4. Recommendations for firefighters
 - 5.4.1. Firefighters should wear protective equipment and self-contained breathing apparatus.
- 5.5. Further information
 - 5.5.1 Prevent fire extinguishing water from contaminating surface water or the ground water system.

Section 6: Accidental Release Measures

- 6.1. Personal precautions, protective equipment, and emergency procedures
 - 6.1.1. Avoid contact with skin and eyes.
 - 6.1.2. Remove contaminated clothing.
 - 6.1.3. Wear protective clothing as per Section 8.
 - 6.1.4. Wash thoroughly after dealing with spillage.
- 6.2. Environmental Precautions
 - 6.2.1. Do not let product enter drains.
- 6.3. Methods and materials used for containment and cleanup procedures
 - 6.3.1. Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.
- 6.4. For disposal see section 13

Section 7: Handling and Storage

- 7.1. Precautions for safe handling

- 7.1.1. Do not ingest.
- 7.1.2. Do not breathe vapor.
- 7.1.3. Avoid contact with eyes, skin, and clothing.
- 7.1.4. Do not eat, drink, or smoke when using this product.
- 7.1.5. Ensure adequate ventilation.
- 7.1.6. Eyewash bottles or station should be available.
- 7.2. Conditions for safe storage, including any incompatibilities
 - 7.2.1. Recommended storage temperature see product label.
 - 7.2.2. Keep container tightly closed.
 - 7.2.3. Store in a dry place protected from light.
 - 7.2.4. Storage class (TRGS 510): 12: Non-Combustible Liquids

Section 8: Exposure Controls/Personal Protection

8.1. Control Parameters

- 8.1.1 Contains no substances with occupational exposure limit values.

8.2. Engineering Controls

- 8.2.1 Change contaminated clothing. Wash hands after working with substance.

8.3 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.
- 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) or EN 166(EU).

8.3. Exposure controls

- 8.3.1. Eyewash bottles should be available.

8.4 Control of environmental exposure

- 8.4.1 Do not let product enter drains.

Section 9: Physical and Chemical Properties

9.1. Information on physical and chemical properties

- 9.1.1. Appearance: Light yellow
- 9.1.2. Odor: No information available.
- 9.1.3. Odor threshold: No information available.
- 9.1.4. pH: 7.0 – 7.4
- 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 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.

10.4.2. Keep away from extreme temperatures.

10.5. Incompatible materials

10.5.1. Incompatible with strong oxidizing agents.

10.6. Hazardous decomposition products

10.6.1. In the event of fire: see section 5

Section 11: Toxicological Information

11.1. Information on toxicological effects

11.1.1 No experimental test data available for the mixture

11.2. Acute Toxicity

Oral: No data available

Inhalation: No data available

Dermal: No data available

Skin corrosion/irritation

Remarks: No data available

Serious eye damage/eye irritation:

Remarks: No data available

Respiratory or skin sensitization:

No data available

Germ cell mutagenicity:

No data available

Carcinogenicity

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure



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No data available

Aspiration hazard

No data available

11.3. Additional information

We have no description of any toxic symptoms. Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately. Handle in accordance with good industrial hygiene and safety practice.

Section 12: Ecological Information

- 12.1. Toxicity: This product is not classified as hazardous to the environment under U.S. regulations
- 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 as chemical safety assessment not required/ not conducted
- 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. Discharge into the environment must be avoided.

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. Contaminated packaging
 - 13.2.1. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

Section 14: Transport Information

- 14.1. UN number: Not classified as hazardous for transport
- 14.2. UN proper shipping name: Not applicable
- 14.3. Transport hazard class(es): Not applicable
- 14.4. Packing group number: Not applicable
- 14.5. Environmental hazards: Not classified
- 14.6. Special precautions for user: Not classified.
- 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code: Not classified.
- 14.8. Domestic Surface Transport (US DOT)
 - 14.8.1. Proper Shipping Name: Not applicable
 - 14.8.2. DOT UN No.: Not applicable
 - 14.8.3. DOT Hazard Class: Not applicable
 - 14.8.4. DOT Packaging Group: Not applicable
- 14.9. International Road/Rail (ADR/RID)
 - 14.9.1. Proper Shipping Name: Not applicable
 - 14.9.2. ADR UN No.: Not applicable
 - 14.9.3. ADR Hazard Class: Not applicable
 - 14.9.4. ADR Packing Group: Not applicable



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- 14.9.5. Tunnel Code: Not applicable
- 14.10. Ocean/Sea (IMO/MDG)
 - 14.10.1. Proper Shipping Name: Not applicable
 - 14.10.2. IMDG UN No.: Not applicable
 - 14.10.3. IMDG Hazard Class: Not applicable
 - 14.10.4. IMDG Pack Group.: Not applicable
- 14.11. Air (ICAO/IATA)
 - 14.11.1. Proper Shipping Name: Not applicable
 - 14.11.2. ICAO Un No.: Not applicable
 - 14.11.3. ICAO Hazard Class: Not applicable
 - 14.11.4. ICAO Packing Group: Not applicable

Section: 15: Regulatory Information

15.1. CERCLA Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 313 : 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.

15.2 Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B). This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F). This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489).

15.3 Clean Water Act

The following Hazardous Substances are listed under the U.S. Clean Water Act, Section 311, Table 116.4A:

disodium hydrogen orthophosphate 7558-79-4 ≥ 0.1 - < 1 %

sodium hydrogen sulfite 7631-90-5 ≥ 0 - < 0.1 %

The following Hazardous Chemicals are listed under the U.S. Clean Water Act, Section 311, Table 117.3:

disodium hydrogen orthophosphate 7558-79-4 ≥ 0.1 - < 1 %

sodium hydrogen sulfite 7631-90-5 ≥ 0 - < 0.1 %

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act

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This product does not contain any priority pollutants related to the U.S. Clean Water Act



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15.4 US State Regulations

Massachusetts Right to Know

water	7732-18-5
sorbitan, mono-(9Z)-9-octadecenoate, poly(oxy-1,2- ethanediyl) derivatives	9005-65-6

Pennsylvania Right to Know

disodium hydrogen orthophosphate	7558-79-4
sodium hydrogen sulfite	7631-90-5

Maine Chemicals of High Concern

water	7732-18-5
sorbitan, mono-(9Z)-9-octadecenoate, poly(oxy-1,2- ethanediyl) derivatives	9005-65-6
sodium chloride	7647-14-5

Vermont Chemicals of High Concern

water	7732-18-5
sorbitan, mono-(9Z)-9-octadecenoate, poly(oxy-1,2- ethanediyl) derivatives	9005-65-6
sodium chloride	7647-14-5

Washington Chemicals of High Concern

water	7732-18-5
sorbitan, mono-(9Z)-9-octadecenoate, poly(oxy-1,2- ethanediyl) derivatives	9005-65-6
sodium chloride	7647-14-5

The ingredients of this product are reported in the following inventories:

TSCA : Product contains substance(s) not listed on TSCA inventory.

TSCA list No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

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.