


SAFETY DATA SHEET

Section 1: Identification

- 1.1. Product identifier
- 1.1.1. Product Name: **Tartaric Acid 10%**
- 1.1.2. Product Number: **V442, V442-14, V442-7**
- 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. GHS05
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- 2.2.2. Signal word: Danger
- 2.2.3. Hazard statements: H318 – Causes serious eye damage
- 2.2.4. Precautionary statements: P280 - Wear eye protection P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P310 - Immediately call a poison center/doctor
- 2.3. Other hazards:
- 2.3.1. None under normal conditions.

Section 3: Composition/Information on Ingredients

- 3.1. Substances
- 3.1.1. Not relevant (mixture).
- 3.2. Mixtures
- 3.2.1. This product is a mixture of the substances listed below with the addition of non-hazardous Materials

Chemical	Concentration	CAS No.	EC No.	H-Statements	Symbols
Tartaric acid	1-50%	87-69-4	201-766-0	H318	GHS05

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 for at least 15 minues. If skin irritation or rash occurs: Get medical advice/attention. Contaminated clothing should be laundered before reuse.
 - 4.1.3. Contact with eyes
 - 4.1.3.1. 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.
 - 4.1.4. Ingestion
 - 4.1.4.1. If swallowed, wash mouth out with water and dilute with water 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. Causes serious eye damage. 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. Extinguishing Media
 - 5.1.1. Suitable: Use water spray, carbon dioxide, dry chemical powder, sand, or appropriate foam.
 - 5.1.2. Unsuitable: Do not use a heavy water stream.
- 5.2. Special hazards arising from the substance or mixture
 - 5.2.1. Development of hazardous combustion gases or vapors may be possible in the event of fire.
- 5.3. Recommendations for firefighters
 - 5.3.1. Firefighters should wear protective equipment and self-contained breathing apparatus.
 - 5.3.2. Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

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



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- 6.2.1. Do not let product enter drains.
- 6.3. Methods and materials used for containment
- 6.4. Cleanup Procedures
 - 6.4.1. Contact safety officer and ventilate area. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

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. Store at temperatures according to label. Keep cool.
 - 7.2.2. Keep container tightly closed when not in use.
 - 7.2.3. Store in a dry place protected from direct sunlight and away from sources of ignition.
 - 7.2.4. Keep away from oxidizers. Strong acids.

Section 8: Exposure Controls/Personal Protection

- 8.1. Engineering Controls
 - 8.1.1. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation.
- 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.
 - 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. Other information
 - 8.3.1. Do not eat, drink, or smoke during use.

Section 9: Physical and Chemical Properties

- 9.1. Information on physical and chemical properties
 - 9.1.1. Appearance: Colorless liquid
 - 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: 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. Sensitivity to light.
 - 10.2.2. 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 direct sunlight.
 - 10.4.2. Keep away from extreme temperatures.
- 10.5. Incompatible materials
 - 10.5.1. Incompatible with strong oxidizing agents. Strong bases.
- 10.6. Hazardous decomposition products
 - 10.6.1. Decomposition products may include carbon monoxide and carbon dioxide.

Section 11: Toxicological Information

11.1. Information on toxicological effects

Tartaric Acid (87-69-4)

LD50 oral rat:	> 2000 mg/kg
LD50 dermal rat:	> 2000 mg/kg
Additional information:	Lowest Published Lethal DoseLDLo, oral, rat: 7500 mg/kg

Water (7732-18-5)

LD50 oral rat:	≥ 90000 mg/kg
ATE US (oral):	90000.000 mg/kg body weight

- 11.1.1. Contact with eyes
 - 11.1.1.1. Causes serious eye damage
- 11.1.2. Ingestion
 - 11.1.2.1. Product is not toxic but may cause irritation of the throat and/or nausea in sensitive individuals.
- 11.1.3. Inhalation:
 - 11.1.3.1. Not classified
- 11.1.4. Carcinogenicity
 - 11.1.4.1. Not listed in the National Toxicology Program (NTP) 13th Report on Carcinogens.

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Not found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs, Volumes 1-112.

Not listed in OSHA standard 1910.1003 Carcinogens.

11.1.5. Mutagenicity

11.1.5.1 No information available

11.1.6. Teratogenicity

11.1.6.1. No information available

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

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. Avoid release 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. Contaminated packaging

13.2.1. Dispose of as unused product.

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

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. 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: No information available
- 15.3. United States Regulatory Information
 - 15.3.1. Domestic/Non-Domestic Substances Lists (DSL/NDSL)
 - 15.3.1.1. All ingredients listed or exempt, no restrictions.
 - 15.3.2. Toxic Substances Control Act (TSCA)
 - 15.3.2.1. All ingredients listed or exempt.
 - 15.3.3. Massachusetts Right to Know Components
 - 15.3.3.1. This product contains no hazardous substances at or above reporting levels.
 - 15.3.4. New Jersey Worker and Community Right to Know Act
 - 15.3.4.1. This product contains no hazardous substances at or above reporting levels.
 - 15.3.5. Pennsylvania Right to Know Law
 - 15.3.5.1. This product contains no hazardous substances at or above reporting levels.
 - 15.3.6. Rhode Island Right-to-Know General Law
 - 15.3.6.1. This product contains no hazardous substances at or above reporting levels.
 - 15.3.7. SARA 302 Components
 - 15.3.7.1. This product does not contain any components with a section 302 EHS TPQ.
 - 15.3.8. SARA 313 Components
 - 15.3.8.1. This product 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.
 - 15.3.9. SARA 311/312 Components
 - 15.3.9.1. Immediate (acute) health hazard.
 - 15.3.10. California Prop 65
 - 15.3.10.1. This product does not contain hazardous substances at or above reporting levels.
 - 15.3.11

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.