



Safety Data Sheet (SDS)

Product Name: MRS Broth

Catalogue Number: AS-1296

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1. Identification

Product Name: MRS Broth

Catalogue No.: AS-1296

Recommended Use: Preparation of culture media for the isolation and cultivation of Lactobacillus and other lactic acid bacteria.

Restrictions on Use: For laboratory and research use only. Not for human or animal consumption.

2. Hazard Identification

GHS Classification: Not classified as hazardous under GHS.

Signal Word: None

Hazard Statements: Not considered hazardous in normal laboratory use.

Precautionary Statements: Avoid inhalation of dust. Avoid contact with skin and eyes. Use in well-ventilated area.



3. Composition / Information on Ingredients

MRS Broth is a dehydrated culture medium composed of:

Component	Quantity (g/L)
Peptone Casein	10.0
Meat Extract	8.0
Yeast Extract	4.0
Glucose	20.0
Dipotassium Phosphate	2.0
Tween® 80	1.0
Ammonium Citrate	2.0
Sodium Acetate	5.0
Magnesium Sulfate	0.2
Manganese Sulfate	0.04

4. First Aid Measures

Inhalation: Move to fresh air. Seek medical advice if irritation persists.

Skin Contact: Wash with soap and water. Remove contaminated clothing.

Eye Contact: Rinse cautiously with water for several minutes. Seek medical attention if irritation continues.

Ingestion: Rinse mouth with water. Do not induce vomiting. Seek medical attention if large amount swallowed.

5. Firefighting Measures

Suitable Extinguishing Media: Water spray, foam, dry chemical, CO₂.

Hazards: Product is organic; may produce CO, CO₂, and nitrogen oxides on combustion.

Protective Equipment: Firefighters should wear self-contained breathing apparatus.

6. Accidental Release Measures

Avoid creating dust.

Sweep or vacuum without generating dust.

Dispose of in accordance with local regulations.



7. Handling and Storage

Handling: Use in a well-ventilated area. Avoid inhalation of dust.

Storage: Store tightly closed in original container, in a cool, dry place at room temperature. Protect from moisture and direct sunlight.

8. Exposure Controls / Personal Protection

Occupational Exposure Limits: Not established.

Engineering Controls: Laboratory fume hood or local exhaust recommended.

Personal Protective Equipment (PPE): Gloves (nitrile or latex), Lab coat, Safety glasses or goggles, Dust mask/respirator if handling large quantities of powder

9. Physical and Chemical Properties

Appearance: Beige to light brown, free-flowing powder

Odour: Mild, characteristic of peptones

pH (5.2% solution): 6.2 ± 0.2 @ 25 °C

Boiling Point/Melting Point: Not applicable (mixture)

Solubility: Soluble in water

10. Stability and Reactivity

Stability: Stable under recommended storage conditions.

Reactivity: No hazardous reactions known under normal use.

Incompatible Materials: Strong oxidizers.

Hazardous Decomposition Products: CO, CO₂, nitrogen oxides on combustion.

11. Toxicological Information

Acute Toxicity: No data available on mixture; components considered low toxicity.

Likely Routes of Exposure: Inhalation of dust, skin/eye contact.

Effects: May cause mild irritation to respiratory tract, eyes, and skin.

Carcinogenicity/Mutagenicity/Reproductive Effects: Not classified.



12. Ecological Information

Ecotoxicity: Not expected to pose significant environmental hazard.

Persistence/Degradability: Components are biodegradable.

Bioaccumulative Potential: Not significant.

13. Disposal Considerations

Dispose of waste according to local, state, and federal regulations.

Autoclave contaminated material before disposal.

14. Transport Information

Not classified as dangerous goods under ADR/RID, IMDG, IATA, or ADG codes.

15. Regulatory Information

Not classified as hazardous according to GHS/Work Health and Safety (WHS) regulations.

For laboratory use only.

16. Other Information

Preparation Date: 17/07/2024

Revision: 1.0

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