

Safety Data Sheet

MRS Broth Without Glucose | Cat. No. AS-1448 | GHS 7th Edition / WHS Regulations 2023 (Australia)

Section 1 — Identification

Product Name	MRS Broth Without Glucose
Catalogue No.	AS-1448
Synonyms	MRS Broth, Glucose-Free; Modified Lactobacillus Broth (de Man, Rogosa & Sharpe, without dextrose)
Recommended Use	Dehydrated culture medium for cultivation of lactic acid bacteria, carbohydrate-utilisation and fermentation research. Laboratory use only.
Restrictions on Use	Not for food, therapeutic, veterinary, or direct human/animal use
Supplier	AuSaMicS Pty Ltd ABN 56 676 640 467
Address	36/25 Trafalgar Road, Epping, VIC 3076, Australia
Telephone	+61 412 520 598
Email	support@ausamics.com
Emergency Telephone	Poisons Information Centre: 13 11 26 (24 hours, Australia-wide)

Section 2 — Hazard(s) Identification

Not classified as a hazardous substance or dangerous good under the Australian WHS (Hazardous Chemicals) Regulations 2023 or the GHS 7th Edition when used as intended. As a fine dehydrated powder, bulk handling may generate dust that is mechanically irritating to the respiratory tract and eyes; a precautionary GHS07 classification is applied for dust exposure during weighing and handling.



Signal Word	Warning (dust-handling precaution only)
Hazard Statement	H335 — May cause respiratory irritation (precautionary; bulk powder handling)
Precautionary Statements	P261 — Avoid breathing dust. P271 — Use only outdoors or in a well-ventilated area. P304+P340 — IF INHALED: remove to fresh air and keep at rest in a position comfortable for breathing. P312 — Call a POISON CENTER/doctor if you feel unwell.
Other Hazards	Combustible organic powder. Not a PBT or vPvB substance.

Safety Data Sheet (SDS)

AS-1448

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Section 3 — Composition / Information on Ingredients

Component	g/L (approx.)	CAS No.	Classification
Peptone (from casein)	10.0	73049-73-7	Not classified
Beef extract	8.0	68990-08-9	Not classified
Yeast extract	4.0	8013-01-2	Not classified
Polysorbate 80 (Tween 80)	1.0	9005-65-6	Not classified
Sodium acetate	5.0	127-09-3	Not classified
Triammonium citrate	2.0	3458-72-8	Not classified
Dipotassium hydrogen phosphate (K_2HPO_4)	2.0	7758-11-4	Not classified
Magnesium sulfate	0.2	7487-88-9	Not classified
Manganese sulfate	0.05	10034-96-5	Not classified

Section 4 — First-Aid Measures

Inhalation	Remove to fresh air. If breathing is difficult, seek medical attention. Rinse nose and mouth with water if dust has been inhaled.
Skin Contact	Wash with soap and water. Remove contaminated clothing. Seek medical attention if irritation persists.
Eye Contact	Rinse cautiously with water for at least 15 minutes, holding eyelids open. Remove contact lenses if present and easy to do. Seek medical attention if irritation persists.
Ingestion	Rinse mouth. Do not induce vomiting. Seek medical attention if a large quantity is swallowed or symptoms occur.
Most Important Symptoms	Mechanical irritation of eyes, skin, and respiratory tract from dust exposure. No specific systemic toxicity known at normal handling levels.
Advice to Physician	Treat symptomatically. No specific antidote required.

Section 5 — Fire-Fighting Measures

Suitable Extinguishing Media	Water spray, carbon dioxide, dry chemical powder, foam
Unsuitable Extinguishing Media	High-pressure water jet (may disperse dust)
Specific Hazards	Combustible organic powder. No unusual fire or explosion hazards known.
Protective Equipment for Firefighters	Self-contained breathing apparatus and full protective clothing for large fires

Safety Data Sheet (SDS)

AS-1448

www.ausamics.com.au

Section 6 — Accidental Release Measures

Personal Precautions	Avoid raising dust. Use PPE as per Section 8. Ensure adequate ventilation.
Environmental Precautions	Prevent entry into drains, watercourses, or soil
Containment & Clean-Up	Sweep or vacuum (with HEPA filtration) into a suitable, labelled container for disposal. Avoid dry sweeping that generates dust.
Disposal Reference	See Section 13

Section 7 — Handling and Storage

Handling Precautions	Avoid generating and breathing dust. Handle in a well-ventilated area for bulk quantities. Avoid contact with skin and eyes.
Storage Conditions	Store in tightly sealed original container, 2–25°C, dry, protected from moisture and direct light
Incompatibilities	None known under normal storage conditions
Prepared Medium	Once rehydrated and sterilised, use promptly or store briefly at 2–8°C as required by the application

Section 8 — Exposure Controls / Personal Protection

Occupational Exposure Limits	No specific exposure standard established; treat as a nuisance dust — Australian WES for inhalable dust (not otherwise classified): 10 mg/m ³ (TWA)
Engineering Controls	Local exhaust ventilation or fume hood when weighing bulk powder
Respiratory Protection	P1/P2 particulate respirator when weighing or handling bulk powder
Eye Protection	Safety glasses or goggles
Hand Protection	Nitrile gloves
Body Protection	Laboratory coat

Section 9 — Physical and Chemical Properties

Appearance (powder)	Beige to light yellow, homogeneous powder
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Safety Data Sheet (SDS)

AS-1448

www.ausamics.com.au

Appearance (prepared)	Clear to slightly opalescent, light amber solution
Odour	Slight characteristic odour
pH (prepared, 25°C)	6.2 ± 0.2 (base medium, before carbohydrate addition)
Solubility	32.25 g/L in water
Flammability	Combustible organic powder; not self-igniting under normal conditions
Bulk Density	Not determined (product-specific; refer to Certificate of Analysis)

Section 10 — Stability and Reactivity

Reactivity	Stable under normal storage and handling conditions
Chemical Stability	Stable when stored as directed
Possibility of Hazardous Reactions	None known
Conditions to Avoid	Excessive heat, moisture ingress, prolonged light exposure
Incompatible Materials	None known
Hazardous Decomposition Products	Thermal decomposition may release carbon oxides and nitrogen oxides

Section 11 — Toxicological Information

Acute Toxicity	Not classified; no acute toxicity data indicating hazard at normal handling levels
Skin Corrosion/Irritation	Not classified; may cause mild mechanical irritation from dust
Serious Eye Damage/Irritation	Not classified; may cause mild mechanical irritation from dust
Respiratory/Skin Sensitisation	Not classified
Carcinogenicity / Mutagenicity / Reproductive Toxicity	Not classified; no components listed as carcinogens (IARC, ACGIH, NTP) at use concentrations
Aspiration Hazard	Not classified

Section 12 — Ecological Information

Ecotoxicity	Not expected to be harmful to aquatic organisms at anticipated environmental concentrations; not extensively tested
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Safety Data Sheet (SDS)

AS-1448

www.ausamics.com.au

Persistence and Degradability	Organic components (peptone, beef extract, yeast extract) are readily biodegradable
Bioaccumulative Potential	Not expected to bioaccumulate
Mobility in Soil	Not applicable — soluble organic mixture
Other Adverse Effects	None known

Section 13 — Disposal Considerations

Disposal Method	Autoclave inoculated/prepared broth at 121°C for a minimum of 15 minutes before disposal as microbiological waste, in accordance with local regulations
Uninoculated Powder/Medium	Dispose of as general laboratory chemical waste via a licensed waste contractor in accordance with EPA (Victoria) requirements
Packaging	Dispose of empty containers in accordance with local council recycling/waste requirements

Section 14 — Transport Information

UN Number	Not applicable — not classified as dangerous goods
Transport Hazard Class	Not applicable — ADG, IMDG, IATA: Not Dangerous Goods
Packing Group	Not applicable
Environmental Hazards	Not applicable
Special Precautions	None

Section 15 — Regulatory Information

Australian Regulations	Not classified as a Scheduled Poison under the SUSMP (Poisons Standard). Not listed on the AICIS chemical inventory as a chemical of concern for the mixture as supplied.
WHS Regulations 2023 (Vic)	Classified per GHS 7th Edition as outlined in Section 2 (precautionary dust classification)
International Inventories	Components are listed on relevant chemical inventories (TSCA, EINECS) where applicable to individual ingredients

Section 16 — Other Information

Safety Data Sheet (SDS)

AS-1448

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Preparation Date	August 2026
Revision	Rev. 1.0
Abbreviations	GHS = Globally Harmonised System; WHS = Work Health and Safety; TWA = Time-Weighted Average; SUSMP = Standard for the Uniform Scheduling of Medicines and Poisons
Key Literature Sources	de Man JC, Rogosa M, Sharpe ME. J Appl Bacteriol. 1960;23(1):130–135

Disclaimer

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