



Safety Data Sheet

SDS-AS-1337

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Prepared in accordance with Australian WHS Regulations 2017 & GHS (7th Revision) | Issue Date: March 2026 | Rev: 1.0

Section 1 — Identification

Product Name	R2A Agar (Reasoner's 2A)
Other Names	R2A Medium; ISO 6222 Medium; Ph. Eur. Medium S
Catalog No.	AS-1337
Intended Use	Microbiological culture medium — for laboratory use only
Supplier	AuSaMicS Pty Ltd, 31 Longview CT, Thomastown VIC 3074, Australia
ABN	56 676 640 467
Phone	+61 412 520 598
Email / Web	support@ausamics.com / www.ausamics.com.au
Emergency (24h)	Poisons Information Centre: 13 11 26 (Australia)

Section 2 — Hazard Identification

GHS Classification	NOT classified as hazardous under GHS / WHS Regulations 2017
Signal Word	None required
Hazard Statements	None allocated
Precautionary Stmt.	P260 · P262 · P264 · P270 · P272 · P501
Pictograms	None required
Other Hazards	Dust may cause mild mechanical eye/respiratory irritation. No SVHC identified.

Section 3 — Composition / Information on Ingredients

Component	CAS No.	Proportion (w/w)	GHS Classification
Agar (bacteriological)	9002-18-0	~82.8%	Not classified



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Component	CAS No.	Proportion (w/w)	GHS Classification
Yeast Extract	8013-01-2	~2.8%	Not classified
Proteose Peptone No. 3	—	~2.8%	Not classified
Casein Hydrolysate	65072-00-6	~2.8%	Not classified
Glucose (Dextrose)	50-99-7	~2.8%	Not classified
Starch (Soluble)	9005-84-9	~2.8%	Not classified
K ₂ HPO ₄	7758-11-4	~1.7%	Not classified
Sodium Pyruvate	113-24-6	~1.7%	Not classified
MgSO ₄ · 7H ₂ O	10034-99-8	~0.1%	Not classified

Section 4 — First Aid Measures

Inhalation	Remove to fresh air. If symptoms persist, seek medical advice.
Skin Contact	Wash thoroughly with soap and water. Remove contaminated clothing. No special treatment required.
Eye Contact	Rinse with copious water for at least 15 minutes, holding eyelids open. Seek medical advice if irritation persists.
Ingestion	Do not induce vomiting. Rinse mouth with water. Seek medical advice if unwell. Product has low acute toxicity.
Medical Note	No specific antidote. Treat symptomatically. Show this SDS to attending physician.

Section 5 — Fire-Fighting Measures

Flash Point	Not applicable (non-flammable powder)
Extinguishing Media	CO ₂ , dry chemical powder, or water spray suitable for surrounding fire
Hazardous Products	CO, CO ₂ , and nitrogen oxides at high temperatures



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Fire-Fighting PPE

Self-contained breathing apparatus (SCBA) in enclosed spaces

Section 6 — Accidental Release Measures

Personal Precautions	Avoid dust generation. Use appropriate PPE (gloves, P2 dust mask). Ensure adequate ventilation.
Env. Precautions	Prevent entry into drains, waterways, or soil.
Clean-up Method	Collect dry powder with vacuum (HEPA filter) or damp cloth. Avoid dry sweeping. Dispose per Section 13.

Section 7 — Handling and Storage

Handling	Handle in well-ventilated area. Avoid dust inhalation and eye contact. Do not eat, drink, or smoke during handling.
Storage — Dehydrated	15–25 °C, dry place, tightly closed, away from light and moisture
Storage — Prepared	2–8 °C, sealed, use within 4 weeks of preparation
Incompatible Materials	Strong oxidising agents; concentrated acids and bases

Section 8 — Exposure Controls / Personal Protection

OEL / TWA (SWA)	No specific WES established for this mixture
Engineering Controls	Local exhaust ventilation where dust generation is possible
Respiratory	P2 dust mask if dust cannot be controlled by engineering means
Hand Protection	Nitrile or latex gloves (EN 374 / AS/NZS 2161.1)
Eye / Face	Safety glasses with side shields; goggles if splash risk
Body Protection	Laboratory coat and closed footwear

Section 9 — Physical and Chemical Properties



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Property	Value
Physical State (25 °C)	Solid (powder)
Colour	Pale cream to light beige
Odour	Faint, characteristic (peptone/yeast)
pH (prepared medium, 25 °C)	7.2 ± 0.2
Melting / Solidification	Gels ≈ 32–34 °C / Melts ≈ 84–86 °C (agar)
Flash Point	Not applicable
Vapour Pressure	Negligible
Solubility in Water	18.12 g/L on heating; swells in cold water
Relative Density (bulk powder)	~0.5 g/mL
Explosive / Oxidising Props.	Not explosive; not oxidising

Section 10 — Stability and Reactivity

Stability	Stable under recommended storage conditions
Conditions to Avoid	Moisture, heat > 40 °C, direct sunlight, humidity > 70% RH
Materials to Avoid	Strong oxidising agents, concentrated acids, concentrated bases
Hazardous Decomposition	CO, CO ₂ , and nitrogen oxides on combustion

Section 11 — Toxicological Information

Acute Oral Toxicity	Low — components are food-grade or GRAS (Generally Recognised As Safe)
Skin Irritation	Not classified as irritating under GHS
Eye Irritation	Dust may cause mild mechanical irritation; not classified
Sensitisation	No known sensitisation potential
Carcinogenicity	Not classified (IARC, NTP, ACGIH)



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Reproductive Toxicity	Not classified
STOT (single/repeat)	Not classified
Aspiration Hazard	Not classified

Section 12 — Ecological Information

Aquatic Toxicity	Not expected to be harmful at typical spill concentrations
Persistence/Biodegradability	All components expected to be readily biodegradable
Bioaccumulation	Not expected to bioaccumulate
Mobility in Soil	Low — agar forms gel on contact with moisture
PBT / vPvB	Not applicable

Section 13 — Disposal Considerations

Waste Classification	Not classified as hazardous waste (National Environment Protection Measure)
Prepared Medium (used)	Autoclave or chemically inactivate all medium used for culturing before disposal
Prepared Medium (unused)	Dispose as general laboratory waste after autoclaving; or via licensed contractor
Dehydrated Powder	Dispose per local regulations — general chemical waste
Containers	Decontaminate before disposal or recycling. Do not reuse for food or beverage.

Section 14 — Transport Information

UN Number	Not regulated as dangerous goods
ADG (Australia)	Not classified as dangerous goods (road / rail)
IATA / ICAO	Not restricted for air transport
IMDG	Not classified for sea transport
Env. Hazards	Not classified as environmentally hazardous for transport



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Section 15 — Regulatory Information

AICS (Australia)	All components listed on the Australian Inventory of Chemical Substances
SUSMP	Not scheduled (Poisons Standard)
WHS Regulations	Not classified as a hazardous chemical under WHS Regulations 2017
REACH (EU)	Components comply with REACH Regulation (EC) No. 1907/2006
TSCA (USA)	Components are listed or exempt from TSCA inventory

Section 16 — Other Information

SDS Prepared By	AuSaMicS Pty Ltd — Technical & Quality Department
Issue Date	March 2026
Revision No.	1.0
Review Date	March 2027 or upon regulatory change
Key References	Safe Work Australia Code of Practice; AS/NZS 2161.1; GHS 7th Rev.; ISO 6222:1999
Disclaimer	Information based on current knowledge at issue date. Does not constitute a guarantee of product quality parameters.

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