



SAFETY DATA SHEET

AS-1339 | Reinforced Clostridial Medium (RCM)
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Safety Data Sheet

Reinforced Clostridial Medium (RCM) | Catalogue No. AS-1339

Prepared in accordance with the Australian WHS Regulations and GHS (7th Edition)

SECTION 1 — Identification

Product Name	Reinforced Clostridial Medium (RCM)
Catalogue Number	AS-1339
Intended Use	Enriched reducing semi-solid medium for Clostridia and anaerobe cultivation — laboratory use only. acc. harm. EP/USP/JP.
Supplier	AuSaMicS Pty Ltd 31 Longview CT, Thomastown, VIC 3074, Australia
ABN	56 676 640 467
Emergency	Poisons Information Centre: 13 11 26 (Australia, 24 hr) +61 412 520 598
Email	support@ausamics.com.au
Website	www.ausamics.com.au

SECTION 2 — Hazard Identification

GHS Classification: The mixture is not classified as a hazardous substance under Australian WHS Regulations 2011 (GHS criteria) at typical laboratory use concentrations. Note: L-Cysteine hydrochloride is present at 0.5 g/L — see Section 3.

Signal Word: None required

Hazard Statements: None applicable for the mixture at use concentration.

Precautionary Statements: P260 — Do not breathe dust. P264 — Wash hands after handling. P270 — No eating, drinking, or smoking. P501 — Dispose per applicable regulations.

Biological Hazard: Handle inoculated medium at Biosafety Level 2 (BSL-2) minimum. Clostridium perfringens and C. novyi may be BSL-2/3 organisms — consult institutional biosafety guidelines. Autoclave all inoculated waste at 121 °C for 30 minutes before disposal.

SECTION 3 — Composition / Information on Ingredients



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Component	CAS Number	Proportion	GHS Classification
Meat Extract	8001-31-8	~26.3%	Not classified
Peptone	73049-73-7	~26.3%	Not classified
Yeast Extract	8013-01-2	~7.9%	Not classified
D(+)-Glucose	50-99-7	~13.2%	Not classified
Soluble Starch	9005-84-9	~2.6%	Not classified
Sodium Chloride	7647-14-5	~13.2%	Not classified
Sodium Acetate	127-09-3	~7.9%	Not classified
L-Cysteine Hydrochloride	52-89-1	~1.3%	H302 Harmful if swallowed (at high dose); H311 skin; H331 inhaled
Agar	9002-18-0	~1.3%	Not classified

L-Cysteine HCl present at 0.5 g/L (~1.3% w/w). At this working concentration with standard laboratory handling, hazard is negligible. Apply standard laboratory precautions.

SECTION 4 — First Aid Measures

Inhalation	Remove to fresh air. If symptoms persist seek medical attention. Sulfurous odour from cysteine is not hazardous at use concentrations.
Skin Contact	Wash with soap and water ≥ 15 minutes. Remove contaminated clothing.
Eye Contact	Flush immediately with water ≥ 15 minutes. Seek medical attention.
Ingestion	Do not induce vomiting. Rinse mouth. Seek medical advice. Inform physician of L-cysteine content.
Symptoms	Mild irritation from dust. L-cysteine may cause sensitisation at high concentration.

SECTION 5 — Fire-Fighting Measures

Flammability	Not flammable under normal conditions
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Extinguishing media	CO ₂ , dry chemical, or water spray
Decomposition products	CO, CO ₂ , nitrogen oxides, sulfur compounds on combustion
PPE	SCBA if involved in fire

SECTION 6 — Accidental Release Measures

Powder: Avoid dust. Wear P1 mask and nitrile gloves. Sweep up into sealed container.

Inoculated medium: BSL-2 precautions. May contain pathogenic Clostridia. Disinfect spill area with 1% sodium hypochlorite. Autoclave all contaminated material at 121 °C ≥30 minutes.

SECTION 7 — Handling and Storage

Handling: Standard BSL-2 laboratory precautions. Inoculated medium containing Clostridium novyi or C. perfringens — consult institutional biosafety guidelines. Do not eat, drink, or smoke. Wash hands after use. Be aware of the reducing properties of L-cysteine — avoid contact with strong oxidising agents.

Storage: Dehydrated powder: 15–25 °C, tightly sealed, dry, protected from light. Prepared tubes: 15–25 °C upright, sealed; use within 3 weeks.

SECTION 8 — Exposure Controls / Personal Protection

OEL	No specific WES. General inhalable dust: 10 mg/m ³ (AU WES). L-cysteine — treat as potential mild sensitiser.
Respiratory	P1 dust mask for powder handling
Eye protection	Safety glasses or goggles — mandatory for inoculated culture work
Skin protection	Disposable nitrile gloves; lab coat
Engineering controls	Well-ventilated laboratory; biological safety cabinet for inoculated Clostridium cultures
Hygiene	Wash hands before eating, drinking, or leaving the laboratory

SECTION 9 — Physical and Chemical Properties



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Appearance (powder)	Beige to pale brown fine powder
Appearance (prepared)	Clear to yellowish semi-solid
Odour	Faint characteristic broth/sulfurous odour (L-cysteine)
pH (prepared, 25 °C)	6.8 ± 0.2
Solubility	Completely soluble with gentle heating
Moisture	≤ 5.0%
Flammability	Not flammable
Reducing properties	L-Cysteine HCl — reacts with strong oxidising agents

SECTION 10 — Stability and Reactivity

Stability	Stable under recommended storage conditions
Conditions to avoid	Moisture, heat, strong oxidising agents, direct light
Incompatible materials	Strong oxidising agents (react with L-cysteine), strong acids, strong alkalis
Decomposition products	CO, CO ₂ , nitrogen oxides, sulfur compounds on combustion
Polymerisation	Will not occur

SECTION 11 — Toxicological Information

Acute oral toxicity	Not classified for mixture; L-cysteine LD ₅₀ (rat, oral): ~1000–1600 mg/kg — minimal risk at 0.5 g/L
Skin sensitisation	L-cysteine may cause sensitisation at high concentration — wear gloves
Eye irritation	Dust may cause mild mechanical irritation
Carcinogenicity	No components listed as carcinogens (IARC, NTP, OSHA)
Biological hazard	Inoculated cultures may contain pathogenic Clostridia — BSL-2/3 precautions required for <i>C. perfringens</i> , <i>C. novyi</i>



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SECTION 12 — Ecological Information

Aquatic toxicity	Not classified; organic components are biodegradable
Biodegradability	Readily biodegradable
Bioaccumulation	Not expected

SECTION 13 — Disposal Considerations

Uninoculated: General laboratory waste per local EPA regulations.

Inoculated medium (Clostridium cultures): Autoclave at 121 °C for 30–60 minutes (extended time for spore-forming organisms). Treat as BSL-2 or BSL-3 biological waste per institutional biosafety policy. Do not pour untreated cultures to drain.

SECTION 14 — Transport Information

UN Number	Not applicable
Proper shipping name	Not regulated as dangerous goods
ADG / IATA / IMDG	Not classified
Special precautions	Keep dry; protect from extreme temperatures

SECTION 15 — Regulatory Information

WHS Regulations 2011	Mixture not classified as hazardous at use concentrations
Pharmacopoeial use	acc. harm. EP 2.6.13 / USP <62> / JP Chapter 4.05
AICC	All components listed
Transport	Not classified as dangerous goods

SECTION 16 — Other Information



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Supersedes	All previous versions
Key references	EP 2.6.13; USP <62>; JP Chapter 4.05; Safe Work Australia

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