Safety Data Sheet

SDS-AS-1190

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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	D/E Neutralizing Agar
Other Names	D/E Neutralizing Agar; Dey-Engley Neutralizing Agar; DE Neutralizing Agar
Catalog No.	AS-1190
Intended Use	Microbiological culture medium for disinfectant neutralization — 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 at supplied concentration for normal laboratory use
Signal Word	Warning (precautionary — dust inhalation; sodium bisulfite component)
Hazard Statements	H302 (sodium bisulfite — harmful if swallowed at high concentration). H317 (sodium bisulfite — may cause allergic skin reaction in sensitised individuals). H319: Eye irritation (dust).
Precautionary	P260 · P264 · P270 · P280 · P301+P312 · P333+P313 · P501
Pictograms	GHS07 (Exclamation mark) — precautionary for sodium bisulfite component
Biological Hazard	Inoculated media may support BSL-2 organisms. Handle all inoculated plates per institutional biosafety guidelines. Wear gloves, lab coat, and eye protection.
Other Hazards	Polysorbate 80 and lecithin: mild skin/eye irritant at concentrated levels. Sodium thiosulfate and thioglycollate: low acute toxicity at supplied concentrations.

Section 3 — Composition / Information on Ingredients

Component	CAS No.	Proportion (w/w)	GHS Classification
Agar (bacteriological)	9002-18-0	~27.8%	Not classified
Dextrose (Glucose)	50-99-7	~18.5%	Not classified
Lecithin (soya)	8002-43-5	~13.0%	Not classified
Sodium Thiosulfate	10102-17-7	~11.1%	Not classified at supplied concentration
Polysorbate 80	9005-65-6	~9.3%	Not classified
Sodium Bisulfite	7631-90-5	~4.6%	H302 · H317 · H319 · H335
Tryptone	—	~9.3%	Not classified
Yeast Extract	8013-01-2	~4.6%	Not classified
Sodium Thioglycollate	367-51-1	~1.9%	H302 · H312 · H332 · H411 (aquatic)
Bromocresol Purple	115-40-2	< 0.1%	Not classified at supplied concentration

Section 4 — First Aid Measures

Inhalation	Remove to fresh air. If respiratory irritation from dust persists, seek medical advice. Sodium bisulfite dust: potential irritant/sensitiser.
Skin Contact	Wash with soap and water ≥ 15 min. Remove contaminated clothing. Seek advice if sensitisation reaction (sodium bisulfite).
Eye Contact	Rinse immediately with copious water ≥ 15 min, holding eyelids open. Seek medical attention if irritation persists.
Ingestion	Do not induce vomiting. Rinse mouth. Seek medical advice. Low acute toxicity. Sodium bisulfite: harmful at high oral doses — seek medical attention.
Medical Note	Sodium bisulfite: potential sensitiser; document exposure. Sodium thioglycollate: mild aquatic toxicant — avoid environmental discharge.

Section 5 — Fire-Fighting Measures

Flash Point	Not applicable (non-flammable powder)

Extinguishing Media	CO_2, dry chemical powder, or water spray
Hazardous Products	CO, CO_2, SOx, NOx on combustion; H_2S possible from thioglycollate decomposition
Fire-Fighting PPE	SCBA in enclosed fire environments

Section 6 — Accidental Release Measures

Personal Precautions	Avoid dust generation. Wear gloves, P2 mask, and eye protection. Ventilate area.
Environmental	Prevent discharge to waterways — sodium thioglycollate is toxic to aquatic organisms.
Chemical Spill (dry)	Collect carefully with vacuum (HEPA) or damp cloth. Avoid airborne dust. Dispose per Section 13.
Biological Spill (inoculated)	Apply 1% hypochlorite; contact time ≥ 30 min. Autoclave all contaminated material. Report per institutional biosafety policy.

Section 7 — Handling and Storage

Handling	Well-ventilated area. Avoid dust inhalation. Wear gloves and eye protection. BSL-2 precautions for inoculated work. Do not eat, drink, or smoke during handling.
Storage — Dehydrated	10–30 °C, tightly closed, protected from moisture, light, and humidity; stable until expiry (typically 3 years)
Storage — Prepared	2–8 °C, sealed bags; use within 2–4 weeks
Incompatible Materials	Strong oxidising agents; concentrated acids (may release SO_2 from bisulfite); strong bases

Section 8 — Exposure Controls / Personal Protection

OEL (Safe Work Australia)	Sodium bisulfite: no specific WES — apply ALARA. Others: no specific WES established.
Engineering Controls	Local exhaust ventilation when weighing dry powder; BSC Class II for inoculated work

Respiratory	P2 dust mask when generating significant dust; FFP2 if sodium bisulfite dust generation
Hand Protection	Nitrile gloves (EN 374 / AS/NZS 2161)
Eye / Face	Safety glasses; goggles if splash risk
Body Protection	Laboratory coat, closed footwear; impermeable apron if handling large volumes
Biosafety	BSL-2 containment required when culturing potentially pathogenic organisms

Section 9 — Physical and Chemical Properties

Property	Value
Physical State (25 °C)	Solid (powder)
Colour (powder)	Pale cream to beige with possible off-white particles
Colour (prepared)	Opaque, purple to reddish-purple opalescent gel
Odour	Faint, characteristic
pH (prepared, 25 °C)	7.6 ± 0.2
Melting / Solidification	Gels ≈ 32–34 °C / Melts ≈ 84–86 °C (agar)
Flash Point	Not applicable
Vapour Pressure	Negligible
Solubility	54.02 g/L on heating with agitation
Explosive / Oxidising	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 (releases SO_2 from bisulfite); strong bases

Hazardous Decomposition	CO, CO_2, SOx, NOx; H_2S possible from thioglycollate on strong heating

Section 11 — Toxicological Information

Acute Oral Toxicity	Low for agar, dextrose, peptones, yeast extract (GRAS). Sodium bisulfite: H302 — harmful if swallowed at high concentration.
Skin Irritation	Sodium bisulfite: H317 — potential sensitiser. Others: not classified.
Eye Irritation	H319 — dust/concentrated solution may cause eye irritation.
Sensitisation	Sodium bisulfite: known sensitiser for susceptible individuals (respiratory and skin)
Carcinogenicity	Not classified
Reproductive Toxicity	Not classified
STOT	H335 (sodium bisulfite single exposure) — may cause respiratory irritation from dust
Aquatic Toxicity	Sodium thioglycollate: H411 — toxic to aquatic organisms with long-lasting effects

Section 12 — Ecological Information

Aquatic Toxicity	Sodium thioglycollate (H411): toxic to aquatic organisms — prevent discharge to waterways or stormwater
Biodegradability	Organic components (tryptone, yeast extract, glucose, agar) are biodegradable. Synthetic components: variable.
Bioaccumulation	Not expected for major components
Environmental Precaution	Treat used/inoculated medium as biohazardous waste; autoclave before disposal

Section 13 — Disposal Considerations

Waste Classification	General laboratory chemical waste; sodium thioglycollate content — treat as environmental hazard
Prepared Medium (inoculated)	Autoclave at 121 °C for 30 min before disposal as clinical/biohazardous waste

Prepared Medium (uninoculated)	Autoclave before disposal; dispose via licensed contractor
Dehydrated Powder	Dispose as chemical waste via licensed contractor — sodium thioglycollate aquatic toxicant
Containers	Rinse before disposal; do not reuse for food or beverage

Section 14 — Transport Information

UN Number	Not regulated as dangerous goods in standard laboratory quantities
ADG (Australia)	Not classified
IATA / ICAO	Not restricted
IMDG	Sodium thioglycollate — check for large commercial shipments (aquatic toxicant H411)

Section 15 — Regulatory Information

AICS (Australia)	All components listed on Australian Inventory of Chemical Substances (AICS)
SUSMP Schedule	Not scheduled for laboratory use
WHS Regulations	Precautionary classification (sodium bisulfite irritant/sensitiser; sodium thioglycollate aquatic toxicant)
REACH (EU)	Components comply with REACH Regulation (EC) No. 1907/2006

Section 16 — Other Information

SDS Prepared By	AuSaMicS Pty Ltd — Technical & Quality Department
Issue Date	March 2026 · Rev 1.0
Review Date	March 2027 or upon regulatory change
Key References	Safe Work Australia; GHS 7th Rev.; WHS Regulations 2017; AS/NZS 2243.3:2010; AOAC 955.11

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Disclaimer: *AuSaMicS Pty Ltd (ABN 56 676 640 467) warrants that this product meets stated specifications at time of manufacture. For laboratory and research use only. Not for diagnostic procedures without proper validation. Not for human or veterinary consumption. Handle under biosafety level 2. AuSaMicS Pty Ltd shall not be held liable for any damages resulting from use outside its intended application.*