



SAFETY DATA SHEET

AS-1338 | Rappaport Vassiliadis Broth (RVS)
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Safety Data Sheet

Rappaport Vassiliadis Soya Broth (RVS) | Catalogue No. AS-1338

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

SECTION 1 — Identification

Product Name	Rappaport Vassiliadis Soya Broth (RVS)
Catalogue Number	AS-1338
Intended Use	Selective enrichment broth for Salmonella spp. from food, environmental and pharmaceutical samples — 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 contains Malachite Green Oxalate which is classified as hazardous. At 0.036 g/L in prepared medium, the hazard is minimal with standard laboratory precautions.

Hazard Classification (Malachite Green, CAS 2437-29-8): H302 Harmful if swallowed | H318 Causes serious eye damage | H341 Suspected of causing genetic defects | H400 Very toxic to aquatic life.

Signal Word: Warning

Precautionary Statements: P201 Obtain special instructions before use. P260 Do not breathe dust. P264 Wash hands thoroughly after handling. P270 Do not eat, drink, or smoke. P273 Avoid release to environment. P280 Wear protective gloves, eye protection. P501 Dispose per regulations.

Biological Hazard: Handle inoculated medium at Biosafety Level 2 (BSL-2). Salmonella spp. are BSL-2 pathogens. Autoclave all inoculated waste at 121 °C for 30 minutes before disposal.

SECTION 3 — Composition / Information on Ingredients



SAFETY DATA SHEET

AS-1338 | Rappaport Vassiliadis Broth (RVS)
www.ausamics.com.au

Component	CAS Number	Proportion	GHS Classification
Soy Peptone	73049-73-7	~17.4%	Not classified
Sodium Chloride	7647-14-5	~27.8%	Not classified
Magnesium Chloride Hexahydrate	7791-18-6	~46.5%	Not classified
KH ₂ PO ₄ (Monopotassium phosphate)	7778-77-0	~5.6%	Not classified
K ₂ HPO ₄ (Dipotassium phosphate)	7758-11-4	~2.8%	Not classified
Malachite Green Oxalate	2437-29-8	~0.125%	H302, H318, H341, H400

Malachite Green Oxalate: present at 0.036 g/L in prepared medium (~0.125% w/w in powder). Despite its GHS classification, at this working concentration with standard PPE, the actual hazard is low. Handle with gloves and avoid eye contact.

SECTION 4 — First Aid Measures

Inhalation	Remove to fresh air. Seek medical advice if symptoms persist.
Skin Contact	Wash thoroughly with soap and water ≥15 minutes. Malachite green may stain skin. Remove contaminated clothing.
Eye Contact	CRITICAL: Malachite green causes serious eye damage. Flush immediately with copious water ≥15 minutes. Seek immediate medical attention — do not delay.
Ingestion	Do not induce vomiting. Rinse mouth with water. Seek medical advice immediately. Inform of malachite green content.

SECTION 5 — Fire-Fighting Measures

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



SAFETY DATA SHEET

AS-1338 | Rappaport Vassiliadis Broth (RVS)
www.ausamics.com.au

SECTION 6 — Accidental Release Measures

Powder spill: Avoid generating dust. Wear P2 mask, nitrile gloves, and safety goggles. Malachite green — wear gloves. Sweep up into sealed container. Do not wash to drain.

Prepared medium spill: Malachite green is very toxic to aquatic life — prevent entry to drains or waterways. Absorb with paper towels. Disinfect area with 1% sodium hypochlorite.

Inoculated medium spill (Salmonella): BSL-2 biological hazard. Disinfect with 1% sodium hypochlorite. Autoclave all contaminated material.

SECTION 7 — Handling and Storage

Handling: Wear nitrile gloves and safety glasses at all times when handling powder or prepared medium — malachite green causes serious eye damage. Use in well-ventilated area or fume hood for powder handling. Do not eat, drink, or smoke. Wash hands thoroughly after use. Handle inoculated Salmonella cultures in BSL-2 containment.

Storage: Dehydrated powder: 15–30 °C, tightly sealed, dry, protected from light. Prepared medium: 2–8 °C, protected from light, use within 3 months.

SECTION 8 — Exposure Controls / Personal Protection

OEL (Malachite green)	No specific Australian WES. NIOSH REL: 0.1 mg/m ³ (recommended). Handle as hazardous substance.
Respiratory	P2 dust mask for powder handling — malachite green dust is hazardous
Eye protection	Safety goggles MANDATORY — malachite green causes serious eye damage (H318)
Skin protection	Nitrile gloves (minimum) + lab coat. Malachite green stains skin and is absorbed through skin.
Engineering controls	Fume hood or ventilated enclosure for powder weighing. BSL-2 cabinet for Salmonella cultures.
Hygiene	Wash hands before eating, drinking, or leaving laboratory. Change contaminated clothing immediately.



SAFETY DATA SHEET

AS-1338 | Rappaport Vassiliadis Broth (RVS)
www.ausamics.com.au

SECTION 9 — Physical and Chemical Properties

Appearance (powder)	Pale green to greenish-brown fine powder
Appearance (prepared)	Bluish-green clear liquid
Odour	Mild characteristic broth odour
pH (prepared, 25 °C)	5.2 ± 0.2 (acidic)
Osmolarity	~1400 mOsm/kg (elevated by MgCl ₂)
Moisture	≤ 5.0%
Flammability	Not flammable
Environmental hazard	Malachite green — very toxic to aquatic life (H400)

SECTION 10 — Stability and Reactivity

Stability	Stable under recommended storage conditions. Malachite green degrades at elevated temperature (>115 °C).
Conditions to avoid	Heat above 115 °C (degrades malachite green), light, moisture, strong oxidising agents
Incompatible materials	Strong oxidising agents, strong reducing agents
Decomposition	Malachite green degrades on overheating — medium becomes colourless, indicating loss of selectivity
Polymerisation	Will not occur

SECTION 11 — Toxicological Information

Malachite green (key hazard)	H302 Harmful if swallowed (LD ₅₀ rat, oral: ~275 mg/kg); H318 Serious eye damage; H341 Suspected mutagen. At 0.036 g/L in prepared medium, risk is minimised with PPE.
Acute oral toxicity (mixture)	Low risk at use concentration — dominated by salts and peptone
Eye hazard	SERIOUS — malachite green causes serious eye damage. Mandatory goggles.



SAFETY DATA SHEET

AS-1338 | Rappaport Vassiliadis Broth (RVS)
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Skin sensitisation	Malachite green may cause skin sensitisation with repeated exposure
Mutagenicity	Malachite green: H341 Suspected of causing genetic defects (Category 2)
Ecotoxicity	Malachite green: H400 Very toxic to aquatic life — do not release to environment
Biological hazard	Inoculated cultures contain Salmonella spp. (BSL-2) — handle per institutional biosafety guidelines

SECTION 12 — Ecological Information

Malachite green — aquatic toxicity	Very toxic to aquatic organisms (H400). Do NOT dispose to drain, waterways, or sewer. May persist in aquatic environment.
Biodegradability	Malachite green is poorly biodegradable; requires specialised treatment
Other components	Salts and peptone components are environmentally benign at use concentrations

SECTION 13 — Disposal Considerations

Uninoculated medium: Do NOT dispose to drain — malachite green is H400 Very toxic to aquatic life. Collect in labelled chemical waste container. Dispose via licensed chemical waste contractor.

Inoculated medium (Salmonella cultures): Autoclave at 121 °C for 30 minutes to inactivate Salmonella. Even after autoclaving, malachite green chemical waste should be collected separately — consult local EPA requirements for disposal of malachite green containing waste.

SECTION 14 — Transport Information

UN Number	Not classified as dangerous goods for transport
ADG / IATA / IMDG	Not classified as dangerous goods
Environmental consideration	Malachite green — H400 toxic to aquatic life. Ensure container integrity during transport. Do not ship with food.



SAFETY DATA SHEET

AS-1338 | Rappaport Vassiliadis Broth (RVS)
www.ausamics.com.au

SECTION 15 — Regulatory Information

WHS Regulations 2011	Contains malachite green — classified as hazardous; handle per WHS Regulations
Malachite green (AIC)	Listed on Australian Inventory of Industrial Chemicals
Pharmacopoeial use	acc. harm. EP 2.6.13 / USP <62> / JP Chapter 4.05
Aquatic hazard	Malachite green H400 — do not release to environment per AIC and EPA requirements
Transport	Not classified as dangerous goods (ADG/IATA/IMDG)

SECTION 16 — Other Information

Prepared by	AuSaMicS Pty Ltd — Quality Assurance
Date	March 2026
Version	1.0
GHS version	7th Edition (2017)
Key references	ISO 6579-1:2017; EP 2.6.13; USP <62>; Safe Work Australia; AIC

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