



# SAFETY DATA SHEET

## AS-1330

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### Potato Dextrose Agar (PDA)

Prepared in accordance with the Globally Harmonized System (GHS) of Classification and Labelling of Chemicals, as adopted under the Work Health and Safety Regulations (Australia).

#### SECTION 1 — IDENTIFICATION

|                     |                                                                                                                                                                      |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name        | Potato Dextrose Agar (PDA) Powder                                                                                                                                    |
| Catalogue Number    | AS-1330                                                                                                                                                              |
| Medium Type         | Non-selective solid medium — fungal and yeast cultivation                                                                                                            |
| Recommended Use     | Cultivation, enumeration, and maintenance of fungi and yeasts for food safety, environmental, plant pathology, water microbiology, and QC laboratory applications.   |
| Supplier            | AuSaMicS Pty Ltd, 36/25 Trafalgar Road, Epping VIC 3076, Australia<br>Phone: +61 412 520 598   Email: <a href="mailto:support@ausamics.com">support@ausamics.com</a> |
| Emergency Telephone | AuSaMicS Pty Ltd: +61 412 520 598 (business hours, AEST)<br>Poisons Information Centre (Australia): 13 11 26 (24 hours)                                              |

#### SECTION 2 — HAZARDS IDENTIFICATION

GHS Classification: Not classified as a hazardous substance or mixture under the Australian WHS Regulations or GHS criteria at intended use concentrations.

Signal Word: None required. Pictograms: None required.

Precautionary Note: Dust may cause mild mechanical irritation to eyes and respiratory tract. This product is a microbiological growth medium — once inoculated, treat cultures as potentially containing viable environmental fungi and handle in accordance with AS/NZS 2243 series biosafety requirements.

#### SECTION 3 — COMPOSITION / INFORMATION ON INGREDIENTS

| Component              | g/L  | Function                         |
|------------------------|------|----------------------------------|
| Potato Infusion Solids | ~4.0 | Nitrogen and vitamin source      |
| Dextrose (D-Glucose)   | 20.0 | Primary carbon and energy source |
| Agar                   | 15.0 | Solidifying agent                |

Total dehydrated weight: 39.0 g/L. Not a hazardous mixture; all components are non-hazardous, food/biological-grade materials.

#### SECTION 4 — FIRST AID MEASURES

|              |                                                                                                                                                          |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Inhalation   | Remove to fresh air. Seek medical attention if symptoms persist. Avoid generating dust during weighing.                                                  |
| Skin Contact | Wash with soap and water. No significant hazard expected from dry powder at normal handling quantities.                                                  |
| Eye Contact  | Irrigate with large amounts of water for 15 minutes. Seek medical attention if irritation persists.                                                      |
| Ingestion    | Rinse mouth. Not expected to be acutely toxic. Call the Poisons Information Centre (13 11 26) if a large amount is ingested and the person feels unwell. |

## SECTION 5 — FIRE-FIGHTING MEASURES

|                                     |                                                                                                                                   |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| <b>Suitable Extinguishing Media</b> | CO <sub>2</sub> or dry powder extinguisher; water spray, foam.                                                                    |
| <b>Specific Hazards</b>             | Not flammable, not explosive. No unusual fire hazard expected.                                                                    |
| <b>Advice for Firefighters</b>      | Wear self-contained breathing apparatus (SCBA) in enclosed fire scenarios; standard fire-fighting protective equipment otherwise. |

## SECTION 6 — ACCIDENTAL RELEASE MEASURES

|                                   |                                                                                                                            |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| <b>Personal Precautions</b>       | Avoid generating dust. Use appropriate PPE (Section 8) if handling large spills.                                           |
| <b>Environmental Precautions</b>  | Not expected to pose a significant environmental hazard in dehydrated form.                                                |
| <b>Containment &amp; Clean-Up</b> | Sweep up powder; avoid generating dust; collect in a suitable labelled container for disposal as general laboratory waste. |

## SECTION 7 — HANDLING AND STORAGE

|                                    |                                                                                                                             |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| <b>Handling Precautions</b>        | Handle in a well-ventilated area. Avoid generating or inhaling dust.                                                        |
| <b>Storage — Dehydrated Powder</b> | Store at 2–25°C, sealed, dry. Avoid moisture ingress. Keep away from incompatible oxidising agents. Product is hygroscopic. |
| <b>Storage — Prepared Medium</b>   | Store inverted at 2–8°C, protected from light. Use within 4 weeks of preparation.                                           |

## SECTION 8 — EXPOSURE CONTROLS / PERSONAL PROTECTION

|                             |                                                                                                                                                                                                                                  |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Exposure Standard</b>    | No specific Australian Workplace Exposure Standard established. No respiratory protection required for normal use; apply general inhalable dust limit (10 mg/m <sup>3</sup> ) as a precaution if dust generation is significant. |
| <b>Eye Protection</b>       | Safety glasses recommended during preparation.                                                                                                                                                                                   |
| <b>Hand Protection</b>      | Nitrile gloves.                                                                                                                                                                                                                  |
| <b>Skin/Body Protection</b> | Laboratory coat.                                                                                                                                                                                                                 |

## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

| Property                   | Value                                               |
|----------------------------|-----------------------------------------------------|
| Dehydrated Appearance      | Cream-coloured, homogeneous, free-flowing powder    |
| Prepared Medium Appearance | Pale yellow, translucent agar; firm gel consistency |
| Dissolution                | 39.0 g/L in distilled/purified water                |
| Final pH (25°C)            | 5.6 ± 0.2                                           |
| Sterilisation              | Autoclave 121°C for 15 minutes (15 psi)             |
| Gelling Temperature        | Solidifies below 45°C; melts above 80°C             |
| Moisture Content (powder)  | ≤ 6%                                                |
| Flammability               | Not flammable, not explosive                        |

## SECTION 10 — STABILITY AND REACTIVITY

|                                  |                                                                   |
|----------------------------------|-------------------------------------------------------------------|
| Chemical Stability               | Stable under recommended ambient storage conditions. Hygroscopic. |
| Incompatible Materials           | Strong oxidising agents.                                          |
| Hazardous Decomposition Products | None expected under normal use.                                   |

SECTION 11 — TOXICOLOGICAL INFORMATION

Not classified as acutely toxic. Individual components (potato infusion, dextrose, agar) have low toxicity profiles and are common food/biological-grade materials. Dust may cause mechanical irritation to eyes and respiratory tract. This medium is not intended for consumption. Once inoculated, cultures should be treated as potentially biohazardous per Section 2.

SECTION 12 — ECOLOGICAL INFORMATION

Not classified as environmentally hazardous. Components are biodegradable. Avoid large releases to waterways.

SECTION 13 — DISPOSAL CONSIDERATIONS

Autoclave prepared/inoculated media before disposal, in accordance with institutional biosafety procedures. Dispose of uninoculated dry powder as general laboratory waste per local council and EPA requirements.

SECTION 14 — TRANSPORT INFORMATION

Not classified as Dangerous Goods under the Australian Dangerous Goods (ADG) Code, IATA, or IMDG regulations. No UN Number applicable.

SECTION 15 — REGULATORY INFORMATION

|                      |                                                         |
|----------------------|---------------------------------------------------------|
| Regulatory Framework | Australian WHS Regulations; GHS as adopted in Australia |
| AICIS                | Not subject to AICIS notification                       |
| Poisons Schedule     | Not scheduled under the SUSMP                           |

SECTION 16 — OTHER INFORMATION

|               |                                                                                                                                                                                                                                     |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SDS Reference | SDS-AS-1330-PDA                                                                                                                                                                                                                     |
| Revision Date | 1 August 2024                                                                                                                                                                                                                       |
| Prepared By   | AuSaMicS Pty Ltd                                                                                                                                                                                                                    |
| Next Review   | August 2028                                                                                                                                                                                                                         |
| Abbreviations | GHS = Globally Harmonized System; WHS = Work Health and Safety; ADG = Australian Dangerous Goods; AICIS = Australian Industrial Chemicals Introduction Scheme; SUSMP = Standard for the Uniform Scheduling of Medicines and Poisons |

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