Safety Data Sheet

Litmus Indicator, Pure | Cat. ASD-632 | CAS 1393-92-6
GHS Format | SDS-ASD-632 | Rev. 1.0 | March 2026

Section 1 — Identification

Product Name	Litmus Indicator, Pure
Synonyms	Lichen Blue; Lacmus; Litmus; CI 1242
Catalog No.	ASD-632
CAS No.	1393-92-6
Intended Use	Laboratory reagent; pH indicator; manufacturing raw material
Supplier	AuSaMicS Pty Ltd, 31 Longview CT, Thomastown VIC 3074, Australia
Emergency Contact	+61 412 520 598	support@ausamics.com.au
Emergency Services	Australia: 000	Poisons Info: 13 11 26

Section 2 — Hazard Identification

GHS Classification: Not classified as hazardous under GHS/WHS Regulations (Australia). No signal word required. Dust may cause mild irritation upon prolonged exposure. Not classified as flammable, explosive, or environmentally hazardous.

Signal Word	None required
Hazard Statements	Not classified as hazardous. Dust may cause mild respiratory and eye irritation upon prolonged exposure.
Precautionary Stmts.	P261 — Avoid breathing dust. P264 — Wash hands after handling. P271 — Use in well-ventilated area. P280 — Wear protective gloves/eye protection.
SUSMP	Not scheduled — not a controlled substance
Appearance Note	Dark blue/purple powder may cause skin and clothing staining. Cosmetic only, not a health hazard.

Section 3 — Composition / Ingredients

Component	CAS Number	Nature	Content
Litmus (natural lichen dye mixture)	1393-92-6	Complex natural mixture; principally 7-hydroxyphenoxazone derivatives	Balance

Mineral ash (inorganic residue)	—	Inorganic lichen-derived salts	~22%
Moisture	—	Water of hydration	< 7%

Section 4 — First Aid Measures

Skin Contact	Wash affected area thoroughly with soap and water. Remove stained clothing. Skin staining is cosmetic — not a health hazard. Seek medical advice if irritation develops.
Eye Contact	Immediately flush with clean water for ≥ 15 minutes, holding eyelids open. Remove contact lenses if present. Seek medical attention if irritation or visual disturbance persists.
Inhalation	Move to fresh air. If coughing or breathing difficulty persists, seek medical attention. Rest and keep warm.
Ingestion	Rinse mouth with water. Do not induce vomiting. Seek medical advice. Product has very low toxicity; no specific antidote required.
Note to Physician	Natural dye mixture — treat symptomatically. No specific antidote. Gastric lavage only if very large quantities ingested.

Section 5 — Fire-Fighting Measures

Flash Point	Not applicable (solid; not considered flammable)
Suitable Extinguishants	Water spray, CO_2, dry powder, foam
Combustion Products	Carbon monoxide, CO_2, sulfur oxides, nitrogen oxides
Protective Equipment	Full PPE and SCBA for enclosed fire scenarios

Section 6 — Accidental Release Measures

Personal Precautions	Wear gloves, lab coat, and eye protection. Avoid raising dust. Use P1 dust mask if large quantities are spilled.
Environmental Precautions	Avoid entry into waterways or drains. Natural dye — may cause temporary aesthetic discolouration of water. Low acute ecotoxicity.
Clean-Up Methods	Carefully sweep or vacuum into sealed waste container. Avoid generating dust. Clean residual staining with water and detergent.

Section 7 — Handling & Storage

Handling	Weigh in a fume cupboard or with local exhaust ventilation when handling large quantities. Minimise dust generation. Wear nitrile gloves, lab coat, and safety glasses. Wash hands thoroughly after handling.

Storage Conditions	Store in a tightly closed container at < 25 °C in a cool, dry place. Protect from direct sunlight, moisture, and heat. Keep away from food, beverages, and animal feed.
Incompatibilities	Strong oxidising agents; strong acids and alkalis at high concentration; bleaching agents (cause irreversible decolourisation).
Shelf Life	3 years from manufacture date when stored as recommended

Section 8 — Exposure Controls / PPE

Control Measure	Recommendation
Occupational Exposure Limit	No established OEL for litmus (Australia). Apply ALARA principle.
Respiratory Protection	P1/P2 disposable dust mask if weighing or handling large quantities
Hand Protection	Nitrile or latex gloves (note: may cause blue staining of skin — non-toxic)
Eye Protection	Safety glasses or splash goggles
Body Protection	Laboratory coat (note: staining of fabric is likely)
Engineering Controls	Local exhaust ventilation for bulk quantities; use in well-ventilated area

Section 9 — Physical & Chemical Properties

Appearance	Dark blue to dark purple free-flowing powder
Odour	Odourless to faintly earthy
pH (1% aq. solution)	~7.0 (neutral/purple)
Melting Point	Not applicable (decomposes on heating)
Solubility (water)	Soluble — forms a coloured indicator solution
Vapour Pressure	Negligible at 20 °C
Partition Coefficient	Not applicable (complex natural mixture)
Ash Content	~22% (inorganic mineral residue)

Sections 10–11 — Stability, Reactivity & Toxicology

Stability	Stable under recommended storage conditions. Sensitive to moisture and prolonged light exposure.
Conditions to Avoid	Moisture, direct sunlight, extreme heat, bleaching agents, strong oxidisers
Hazardous Decomposition	CO, CO_2, NO_x, SO_x upon combustion or pyrolysis

Acute Toxicity (oral)	Low toxicity. LD_{50} data not available; oral exposure at typical laboratory quantities considered non-toxic.
Skin / Eye Irritation	May cause mild, temporary irritation. Primary concern is cosmetic staining.
Carcinogenicity	No evidence of carcinogenicity or mutagenicity for this natural lichen extract.
Reproductive Toxicity	No data available. Precautionary measures recommended during pregnancy.

Section 12 — Ecological Information

Ecotoxicity	Low acute aquatic toxicity expected for a natural dye. May cause temporary aesthetic discolouration of receiving waters.
Persistence	Natural product — expected to be biodegradable under environmental conditions
Bioaccumulation	Low potential

Section 13 — Disposal Considerations

Dispose of in accordance with local, state, and federal regulations. Small laboratory quantities: may be diluted with large volumes of water and disposed of via drain (check local trade waste regulations). Bulk quantities: dispose as chemical/laboratory waste via a licensed contractor. Do not incinerate in an uncontrolled manner.

Section 14 — Transport Information

ADG (Australia)	Not classified as Dangerous Goods
IATA / IMDG	Not classified as Dangerous Goods
UN Number	Not applicable

Sections 15–16 — Regulatory & Other Information

SUSMP Schedule	Not scheduled
AICS Status	Listed on Australian Inventory of Chemical Substances (AICS)
WHS Classification	Not classified as hazardous under Safe Work Australia Model WHS Regulations
SDS Revision	Rev. 1.0 — March 2026. Supersedes all prior versions.
Prepared By	AuSaMicS Pty Ltd — Quality & Regulatory Affairs
References	Safe Work Australia Model WHS Regulations; GHS Purple Book (9th Ed.); NICNAS guidelines

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