AuSaMicS™ Life Science

SAFETY DATA SHEET
SDS-ASD-639
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Indigo Carmine (Indigotine, E 132)

Catalogue No. ASD-639 · Prepared in accordance with the Safe Work Australia Model Code of Practice: Preparation of Safety Data Sheets for Hazardous Chemicals · Issue date: 14 November 2026 · Rev 1.0

1. Identification

Product identifier	Indigo Carmine (Indigotine, E 132), C.I. 73015
Catalogue No.	ASD-639
CAS number	860-22-0
Recommended use	Laboratory reagent, biological stain and indicator
Restrictions on use	Not for human or veterinary therapeutic use or diagnosis
Supplier	Ausamics Pty Ltd, 36/25 Trafalgar Road, Epping, VIC 3076, Australia
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Emergency	000 (Australia) · Poisons Information Centre 13 11 26

2. Hazard Identification

GHS classification	Acute toxicity (oral), Category 4. Hazardous chemical according to the WHS Regulations (GHS Rev. 7).
Signal word	WARNING



GHS07 — Exclamation mark

Hazard statement	H302 Harmful if swallowed.
Prevention	P264 Wash hands thoroughly after handling. P270 Do not eat, drink or smoke when using this product.
Response	P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. P330 Rinse mouth.
Disposal	P501 Dispose of contents/container in accordance with local regulations.

Other hazards	Fine dust may form combustible dust concentrations in air. Stains skin and surfaces.

3. Composition / Information on Ingredients

Ingredient	CAS No.	Proportion (%)
Indigo carmine (disodium indigo-5,5′-disulfonate)	860-22-0	≥ 85
Sodium chloride and/or sodium sulfate (uncoloured components) and water	7647-14-5 / 7757-82-6	≤ 15

4. First-Aid Measures

Inhalation	Move to fresh air. Seek medical advice if symptoms persist.
Skin contact	Wash with soap and water. Staining is temporary.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses if easy to do. Seek medical advice if irritation persists.
Ingestion	Rinse mouth. Call a Poisons Information Centre (13 11 26) or doctor if you feel unwell. Do not induce vomiting.
Symptoms	Ingestion may cause nausea and blue discolouration of urine and faeces.
Medical attention	Treat symptomatically.

5. Fire-Fighting Measures

Extinguishing media	Water spray, foam, dry chemical or CO_2
Specific hazards	Combustion may release oxides of carbon, nitrogen and sulfur, and sodium oxides
Protective equipment	Self-contained breathing apparatus and full protective clothing
Hazchem code	None allocated

6. Accidental Release Measures

Personal precautions	Avoid creating dust. Wear gloves, eye protection and a dust mask.
Environmental precautions	Prevent entry into drains and waterways; the dye colours water strongly at low concentrations.
Clean-up	Sweep or vacuum up without raising dust and place in a closed container for disposal. Wash the area with water.

7. Handling and Storage

Handling	Avoid contact with skin and eyes and breathing dust. Do not eat, drink or smoke in work areas. Wash hands after handling.
Storage	Store at 15–25 °C in a dry, well-ventilated place, tightly closed and protected from light. Keep away from strong oxidising agents.

8. Exposure Controls / Personal Protection

Exposure standards	No exposure standard assigned. Inhalable dust (not otherwise classified): 10 mg/m³ TWA (Safe Work Australia).
Engineering controls	General ventilation; local exhaust when weighing powder
Eye protection	Safety glasses with side shields
Hand protection	Nitrile gloves
Body protection	Laboratory coat
Respiratory protection	P2 particulate respirator if dust is generated

9. Physical and Chemical Properties

Appearance	Dark blue powder
Odour	Odourless
Molecular formula / weight	$C_{16}H_8N_2Na_2O_8S_2$ / 466.35 g/mol

Solubility	Water: approx. 10 g/L at 25 °C; slightly soluble in ethanol
Melting point	> 300 °C (decomposes)
Bulk density	approx. 0.7 g/cm³
Flash point	Not applicable
Flammability	Not flammable; fine dust may be combustible

10. Stability and Reactivity

Reactivity	Not reactive under normal conditions
Chemical stability	Stable under recommended storage conditions. Light sensitive.
Conditions to avoid	Light, moisture, heat, dust generation
Incompatible materials	Strong oxidising agents, strong reducing agents
Hazardous decomposition	Oxides of carbon, nitrogen and sulfur; sodium oxides

11. Toxicological Information

Acute toxicity	Oral LD50 (rat): approx. 2,000 mg/kg. Classified Acute Tox. 4 (H302).
Skin corrosion/irritation	Not classified
Eye damage/irritation	Not classified; dust may cause mechanical irritation
Sensitisation	Not classified
Mutagenicity / carcinogenicity / reproductive toxicity	Not classified. Not listed as a carcinogen by IARC.
STOT (single / repeated)	Not classified
Additional information	Permitted food colour E 132; EFSA established an acceptable daily intake of 5 mg/kg body weight per day (2014).

12. Ecological Information

Ecotoxicity	Not classified as hazardous to the aquatic environment. Strongly colours water.
Persistence and degradability	No biodegradability data available; degrades on exposure to light and oxidants
Bioaccumulation	Not expected (water-soluble, ionic)
Mobility in soil	Mobile in water

13. Disposal Considerations

Product	Dispose of in accordance with local, state and federal regulations. Do not discharge large amounts to drains.
Packaging	Rinse empty containers and recycle or dispose of as general waste

14. Transport Information

UN number	None allocated
ADG (road/rail)	Not regulated as dangerous goods
IMDG (sea)	Not regulated
IATA (air)	Not regulated
Hazchem code	None allocated

15. Regulatory Information

Classification	Hazardous chemical under the WHS Regulations (Acute Tox. 4, H302)
Poisons Standard (SUSMP)	Not scheduled
Food additive status	Indigotine (132) is a permitted food colour under the Australia New Zealand Food Standards Code
AICIS	Users should confirm inventory status for their own use

16. Other Information

Date of preparation	14 November 2026
Revision	1.0 — first issue
Abbreviations	ADG: Australian Dangerous Goods Code; GHS: Globally Harmonized System; LD50: median lethal dose; TWA: time-weighted average; WHS: Work Health and Safety

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