# Carmoisine (Azorubine, E 122)

Catalogue No. ASD-637 · Prepared in accordance with the Safe Work Australia Model Code of Practice: Preparation of Safety Data Sheets for Hazardous Chemicals · Issue date: 15 November 2026 · Rev 1.0

## 1. Identification

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| **Product identifier** | Carmoisine (Azorubine, E 122), C.I. 14720 |
| **Catalogue No.** | ASD-637 |
| **CAS number** | 3567-69-9 |
| **Recommended use** | Laboratory reagent, reference dye and analytical standard |
| **Restrictions on use** | Not for human or veterinary therapeutic use or diagnosis |
| **Supplier** | Ausamics Pty Ltd, 36/25 Trafalgar Road, Epping, VIC 3076, Australia |
| **ABN** | 56 676 640 467 |
| **Telephone / email** | +61 412 520 598 · support@ausamics.com |
| **Emergency** | 000 (Australia) · Poisons Information Centre 13 11 26 |

## 2. Hazard Identification

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| **GHS classification** | Not classified as hazardous according to the GHS (Rev. 7) as adopted under the Australian WHS Regulations |
| **Signal word** | None |
| **Pictograms** | None required |
| **Hazard statements** | None |
| **Precautionary statements** | None required. Follow good laboratory practice. |
| **Other hazards** | Fine dust may form combustible dust concentrations in air. Dust may cause mild mechanical irritation to eyes and airways. Stains skin and surfaces. |

## 3. Composition / Information on Ingredients

| Ingredient | CAS No. | Proportion (%) |
|---|---|---|
| Carmoisine (disodium salt) | 3567-69-9 | ≥ 85 |

| Ingredient | CAS No. | Proportion (%) |
|---|---|---|
| Sodium chloride and/or sodium sulfate (uncoloured components) and water | 7647-14-5 / 7757-82-6 | ≤ 15 |

## 4. First-Aid Measures

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| **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. Seek medical advice if irritation persists. |
| **Ingestion** | Rinse mouth. Do not induce vomiting. Seek medical advice if you feel unwell. |
| **Symptoms** | No significant acute effects expected. Intolerance reactions to azo colours have been reported in sensitive individuals. |
| **Medical attention** | Treat symptomatically. |

## 5. Fire-Fighting Measures

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| **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

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| **Personal precautions** | Avoid creating dust. Wear gloves and eye protection. |
| **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

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| **Handling** | Avoid creating 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 sunlight, heat and moisture. Keep away from strong oxidising agents. |

## 8. Exposure Controls / Personal Protection

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| **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** | Not normally required. P1/P2 dust mask if dusty. |

## 9. Physical and Chemical Properties

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| **Appearance** | Dark red to maroon powder |
| **Odour** | Odourless |
| **Molecular formula / weight** | $C_{20}H_{12}N_2Na_2O_7S_2$ / 502.43 g/mol |
| **Solubility** | Freely soluble in water; very slightly soluble in ethanol |
| **Colour of 1 % solution** | Crimson red |
| **Melting point** | > 300 °C (decomposes) |
| **Flash point** | Not applicable |
| **Flammability** | Not flammable; fine dust may be combustible |

## 10. Stability and Reactivity

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| **Reactivity** | Not reactive under normal conditions |
| **Chemical stability** | Stable under recommended storage conditions |
| **Conditions to avoid** | Sunlight, moisture, heat, dust generation |

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| **Incompatible materials** | Strong oxidising agents, strong reducing agents |
| **Hazardous decomposition** | Oxides of carbon, nitrogen and sulfur; sodium oxides |

## 11. Toxicological Information

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| **Acute toxicity** | Low acute toxicity. Not classified. |
| **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** | Acceptable daily intake: 0–4 mg/kg body weight (JECFA; EFSA, 2009). |

## 12. Ecological Information

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| **Ecotoxicity** | Not classified as hazardous to the aquatic environment. Strongly colours water. |
| **Persistence and degradability** | Azo dyes are generally not readily biodegradable |
| **Bioaccumulation** | Not expected (water-soluble, ionic) |
| **Mobility in soil** | Mobile in water |

## 13. Disposal Considerations

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| **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

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| **UN number** | None allocated |

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

## 15. Regulatory Information

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| **Classification** | Not a hazardous chemical under the WHS Regulations |
| **Poisons Standard (SUSMP)** | Not scheduled |
| **Food additive status** | Listed as colour 122 in the Australia New Zealand Food Standards Code. Permitted in the EU as E 122; foods containing it carry an additional warning label under Regulation (EC) No 1333/2008. Not permitted as a food colour in the United States. |
| **AICIS** | Users should confirm inventory status for their own use |

## 16. Other Information

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| **Date of preparation** | 15 November 2026 |
| **Revision** | 1.0 — first issue |
| **Abbreviations** | ADG: Australian Dangerous Goods Code; GHS: Globally Harmonized System; TWA: time-weighted average; WHS: Work Health and Safety |

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