AuSaMicS™ Life Science

SAFETY DATA SHEET
SDS-ASD-640
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Tartrazine (E 102)

Catalogue No. ASD-640 · 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	Tartrazine (E 102), C.I. 19140
Catalogue No.	ASD-640
CAS number	1934-21-0
Recommended use	Laboratory reagent, biological stain and reference dye
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	Skin sensitisation, Category 1. Hazardous chemical according to the WHS Regulations (GHS Rev. 7).
Signal word	WARNING



GHS07 — Exclamation mark

Hazard statement	H317 May cause an allergic skin reaction.
Prevention	P261 Avoid breathing dust. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves.
Response	P302+P352 IF ON SKIN: Wash with plenty of water. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse.

Disposal	P501 Dispose of contents/container in accordance with local regulations.
Other hazards	Fine dust may form combustible dust concentrations in air. Some people are sensitive to tartrazine. Stains skin and surfaces.

3. Composition / Information on Ingredients

Ingredient	CAS No.	Proportion (%)
Tartrazine (trisodium salt)	1934-21-0	≥ 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 breathing symptoms occur.
Skin contact	Wash with plenty of soap and water. Get medical advice if a rash occurs.
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	Allergic skin reactions in sensitive people. Intolerance reactions to tartrazine have been reported.
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 sunlight, heat and moisture. 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	Orange to orange-red powder
Odour	Odourless
Molecular formula / weight	$C_{16}H_9N_4Na_3O_9S_2$ / 534.36 g/mol
Solubility	Freely soluble in water; slightly soluble in ethanol
Colour of 1 % solution	Lemon yellow
Melting point	> 300 °C (decomposes)
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
Conditions to avoid	Sunlight, 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	Low acute toxicity. Oral LD50 (mouse): approx. 12,750 mg/kg. Not classified.
Skin corrosion/irritation	Not classified
Eye damage/irritation	Not classified; dust may cause mechanical irritation
Sensitisation	Skin sensitisation, Category 1 (H317). Intolerance reactions have been reported in sensitive individuals.
Mutagenicity / carcinogenicity / reproductive toxicity	Not classified. Not listed as a carcinogen by IARC.
STOT (single / repeated)	Not classified

Additional information	Permitted food colour E 102; EFSA acceptable daily intake 7.5 mg/kg body weight per day (2009).

12. Ecological Information

Ecotoxicity	Not classified as hazardous to the aquatic environment. Strongly colours water.
Persistence and degradability	No biodegradability data available
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 (Skin Sens. 1, H317)

Poisons Standard (SUSMP)	Not scheduled
Food additive status	Tartrazine (102) 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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