AuSaMicS™ Life Science

SAFETY DATA SHEET

SDS-ASD-627

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Brilliant Blue FCF (E 133)

Catalogue No. ASD-627 · 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 2.0

1. Identification

Product identifier	Brilliant Blue FCF (E 133), C.I. 42090
Catalogue No.	ASD-627
CAS number	3844-45-9
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
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Emergency	000 (Australia) · Poisons Information Centre 13 11 26

2. Hazard Identification

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 (%)
Brilliant Blue FCF (disodium salt)	3844-45-9	≥ 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. 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.
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 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

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

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

Appearance	Violet-blue powder
Odour	Odourless
Molecular formula / weight	$C_{37}H_{34}N_2Na_2O_9S_3$ / 792.85 g/mol
Solubility	Freely soluble in water; soluble in glycerol; slightly soluble in ethanol
Colour of 1 % solution	Turquoise blue
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. 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: 6 mg/kg body weight (EFSA, 2010).

12. Ecological Information

Ecotoxicity	Not classified as hazardous to the aquatic environment. Strongly colours water.
Persistence and degradability	Not readily biodegradable; weakly adsorbed in most soils

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	Not a hazardous chemical under the WHS Regulations
Poisons Standard (SUSMP)	Not scheduled
Food additive status	Listed as colour 133 in the Australia New Zealand Food Standards Code. Permitted in the EU as E 133. In the United States only FDA-certified batches (FD&C Blue No. 1) may be used in food.
AICIS	Users should confirm inventory status for their own use

16. Other Information

Date of preparation	15 November 2026
Revision	2.0 — Second issue
Abbreviations	ADG: Australian Dangerous Goods Code; GHS: Globally Harmonized System; TWA: time-weighted average; WHS: Work Health and Safety

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