

SAFETY DATA SHEET

Sunset Yellow FCF (Food Grade E110)

CAS: 2783-94-0 | Catalog: ASD-630 | Prepared in accordance with GHS/SDS requirements
Issue Date: 2025 | Revision: 1.0 | Supersedes: All previous versions

SECTION 1: IDENTIFICATION

Product Name	Sunset Yellow FCF
Catalog Number	ASD-630
CAS Number	2783-94-0
Common Names	E110 (EU) / FD&C Yellow No. 6 (USA) / C.I. Food Yellow 3
Intended Use	Food, beverage, pharmaceutical, and cosmetic colorant
Supplier	AuSaMicS Pty Ltd, Australia
Emergency Contact	Poisons Information Centre: 13 11 26 (Australia)
Website	ausamics.com.au

SECTION 2: HAZARD IDENTIFICATION

GHS Classification

Not classified as hazardous under GHS criteria based on available data.
Skin/Eye Irritation: May cause mild irritation upon prolonged contact.
Signal Word: Not required (non-hazardous under GHS)

Precautionary Statements:

- P260 — Avoid breathing dust
- P264 — Wash hands thoroughly after handling
- P270 — Do not eat, drink, or smoke when using this product
- P280 — Wear protective gloves and eye protection
- P501 — Dispose of contents/container in accordance with local regulations

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS No.	Concentration	EC No.
Sunset Yellow FCF	2783-94-0	90.4%	220-491-7
Subsidiary dyes / intermediates	Various	< 0.5%	—

SECTION 4: FIRST AID MEASURES

Route	First Aid Action
Eye Contact	Rinse immediately with plenty of water for at least 15 minutes. Remove contact lenses if present. Seek medical attention if irritation persists.

Skin Contact	Wash thoroughly with soap and water. Note: may stain skin temporarily. If irritation develops, seek medical advice.
Inhalation	Move to fresh air. If breathing difficulties persist, seek medical attention.
Ingestion	Rinse mouth with water. This substance is an approved food colorant — low acute oral toxicity. If large amounts ingested or symptoms persist, contact Poisons Information Centre: 13 11 26.

SECTION 5: FIRE-FIGHTING MEASURES

- Suitable extinguishing media: Water spray, foam, dry powder, CO2
- Not classified as flammable under standard conditions
- Combustion may produce irritating fumes including nitrogen and sulfur oxides
- Fire-fighters should wear self-contained breathing apparatus and full protective clothing

SECTION 6: ACCIDENTAL RELEASE MEASURES

- Personal precautions: Wear gloves and eye protection. Avoid generating dust. Note: product will stain surfaces and clothing.
- Environmental: Avoid discharge to waterways — may cause discolouration. Permitted in treated wastewater at regulated levels.
- Clean-up: Sweep up carefully or vacuum. Avoid wet methods initially — product dissolves and spreads easily. Dispose as per local regulations.

SECTION 7: HANDLING AND STORAGE

Aspect	Guidelines
Handling	Avoid dust generation. Do not eat, drink, or smoke when handling. Wash hands after use. Wear gloves — product stains skin and clothing.
Storage	Cool, dry, well-ventilated area away from heat and direct sunlight. Keep container tightly sealed.
Incompatibilities	Strong oxidising agents; strong reducing agents; concentrated acids and bases.
Staining hazard	Product will intensely stain skin, clothing, and surfaces. Use appropriate protective equipment and work surfaces.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

PPE Type	Specification
Respiratory	Dust mask or P2 respirator when handling large quantities of powder in open conditions. General ventilation sufficient for small-scale use.
Hand Protection	Nitrile or latex gloves recommended — product stains skin intensely.
Eye Protection	Safety glasses or goggles when handling powder or concentrated solutions.
Skin/Body	Laboratory coat or apron — product stains clothing permanently. Closed-toe footwear.
OEL	No specific occupational exposure limit established. Apply general good laboratory practice.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical Form	Solid (powder)
Colour	Orange-yellow
Odour	Odourless to faint characteristic odour
Solubility in Water	Excellent — forms clear, bright solutions
Flammability	Not classified as flammable
Vapour Pressure	Negligible at ambient temperature (solid)
Total Dye Content	90.4% (this batch)

SECTION 10: STABILITY AND REACTIVITY

- **Stability:** Stable under recommended storage conditions
- **Conditions to avoid:** High temperatures, strong direct light, moisture
- **Incompatible materials:** Strong oxidising agents, strong acids and bases
- **Hazardous decomposition products:** Nitrogen and sulfur oxides upon combustion
- **Hazardous polymerisation:** Will not occur

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	Low acute oral toxicity — approved food colorant consumed globally. ADI: 0-4 mg/kg body weight (JECFA).
Skin Irritation	Mild irritant on prolonged contact; will stain skin intensely
Eye Irritation	May cause mild irritation — rinse thoroughly
Sensitisation	Cross-reactivity possible in individuals with aspirin sensitivity or tartrazine sensitivity
Carcinogenicity	Not classified as carcinogenic. Approved by EU, FDA, and FSANZ.
Mutagenicity	Not classified as mutagenic based on available regulatory data

SECTION 12: ECOLOGICAL INFORMATION

- **Aquatic:** May cause discolouration of water — avoid uncontrolled discharge to waterways
- **Biodegradability:** Moderate — subject to microbial degradation under aerobic conditions
- **Bioaccumulation:** Low bioaccumulation potential
- **Regulatory:** Discharged only in accordance with local environmental regulations and applicable ADI limits

SECTION 13: DISPOSAL CONSIDERATIONS

- Dispose of unused product and packaging in accordance with local and national regulations
- Do NOT discharge concentrated solutions to sewers without treatment — may cause discolouration
- Contact local authorities or a licensed waste disposal company for guidance

SECTION 14: TRANSPORT INFORMATION

UN Number	Not classified as dangerous goods (ADG/IATA/IMDG)
Packing Group	Not applicable
Special Precautions	Keep dry during transport. Avoid temperature extremes. Prevent staining of other goods.

SECTION 15: REGULATORY INFORMATION

Regulatory Status

European Union: Permitted food additive E110 (subject to labelling requirements). United States: FD&C Yellow No. 6 — FDA certified. Australia/NZ: Permitted food colour (110) under FSANZ. This product meets or exceeds purity specifications for all listed regulatory frameworks.

SECTION 16: OTHER INFORMATION

Prepared by	AuSaMicS Pty Ltd — Quality & Regulatory Affairs
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Disclaimer	Information in this SDS is based on currently available data and is believed to be accurate. Users are responsible for determining suitability for their specific application.