WRIGHT STAIN (POWDER)

Safety Data Sheet

Catalog No.	CAS No.	HS Code
ASD-625	**68988-92-1**	**3204.19.00**

⚠ **PRECAUTION** Not classified as hazardous under GHS criteria for typical laboratory quantities. Dust may cause mild irritation to eyes, skin, and respiratory tract. Use appropriate PPE.

Issue Date	Revision	Supersedes
01 January 2025	**v1.0 — Initial Issue**	**No prior version**

SECTION 1 IDENTIFICATION

Product Name	Wright Stain (Powder)
Catalog Number	ASD-625
CAS Number	68988-92-1
HS / AHECC Code	3204.19.00 — Synthetic organic colouring matter
Product Type	Romanowsky-type biological stain — Hematology & Cytology
Recommended Use	Laboratory stain for differential blood cell staining, hematology, and cytology microscopy
Restrictions on Use	For laboratory and research use only. Not for therapeutic, food, or pharmaceutical use.
Supplier	AuSaMiCs Pty Ltd
Address	31 Longview Ct, Thomastown VIC 3074, Australia
Phone	+61 412 520 598
Email / Web	support@ausamics.com · ausamics.com.au
Emergency Contact	Poisons Information Centre: 13 11 26 (Australia, 24 hr)

SECTION 2 HAZARD IDENTIFICATION

✓ **NOTE** Not classified as hazardous under the GHS (UN GHS Rev. 9) or the Safe Work Australia Code of Practice for Labelling of Workplace Hazardous Chemicals for typical laboratory use quantities.

GHS Classification	Not classified as hazardous

GHS Signal Word	None required
Hazard Statements	None assigned
Precautionary Stmts.	P260 — Do not breathe dust. P264 — Wash hands thoroughly after handling. P270 — Do not eat, drink, or smoke when using this product.
SUSMP (Aust.)	Not a scheduled poison
Physicochemical	Fine powder — dust generation possible. Not flammable under normal conditions.
Health Hazards	Dust may cause mild irritation to eyes, skin, and respiratory tract upon repeated or prolonged contact.
Environmental	No significant environmental hazard expected at laboratory quantities.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Nature: Romanowsky-type dye mixture — eosin and methylene blue derivatives combined in a polychrome formulation.

Component	CAS Number	Concentration	GHS Classification
Wright Stain dye mixture (eosin / methylene blue derivatives)	68988-92-1	100% (pure powder)	Not classified

* Preparation may contain trace amounts of inorganic salts used in the buffered formulation. No substances classified as hazardous are present above notification thresholds.

SECTION 4 FIRST AID MEASURES

Route	Immediate Action	Follow-up / Notes
Eye Contact	Immediately flush with copious running water for at least 15 minutes, holding eyelids apart. Remove contact lenses if present and easy to do.	Seek medical attention if irritation, redness, or blurred vision persists.
Skin Contact	Remove contaminated clothing. Wash affected area thoroughly with soap and water for at least 10 minutes.	Seek medical advice if irritation, rash, or persistent staining occurs.
Inhalation	Remove person to fresh air immediately. Keep warm and at rest. If breathing is difficult, give supplemental oxygen if available.	Seek medical attention if coughing, wheezing, or respiratory distress continues.
Ingestion	Do NOT induce vomiting. Rinse mouth thoroughly with water. Give 1–2 glasses of water to drink if person is conscious.	Seek medical attention immediately. Show this SDS to the attending physician.

WARNING In all cases of significant exposure, call the Poisons Information Centre: 13 11 26 (Australia, 24-hour service). Show this SDS to medical personnel.

SECTION 5 FIRE-FIGHTING MEASURES

Flash Point	Not applicable — solid powder
Flammability	Not flammable under normal storage and use conditions
Suitable Extinguishants	Water spray · CO_2 · Dry chemical powder · Foam
Unsuitable Extinguishants	Do not use high-pressure water jet directly on powder (dust cloud risk)
Hazardous Combustion Prods	Carbon oxides (CO_x) · Nitrogen oxides (NO_x) · Sulphur oxides if present
Fire-Fighting PPE	Full face-piece self-contained breathing apparatus (SCBA). Wear full protective clothing.
Special Hazards	Fine powder may form combustible dust if dispersed in air. Avoid dust generation near ignition sources.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Wear PPE: nitrile gloves, safety goggles, dust mask (minimum P2). Ensure adequate ventilation. Avoid generating dust.
Environmental	Prevent entry into drains, waterways, or sewers. Notify relevant authorities if significant amounts enter waterways.
Containment	Contain spill by surrounding with inert absorbent material (sand, vermiculite, or dry earth). Avoid using materials that may react with the stain.
Clean-up	Collect spilled powder using a damp cloth or HEPA vacuum. Do NOT dry sweep (dust generation). Place into a labelled, sealable waste container.
Decontamination	Wash contaminated surfaces with water and detergent. Rinse thoroughly. Dispose of wash water as chemical waste per Section 13.
Reference	Sections 8 (PPE) and 13 (Disposal) provide additional guidance.

SECTION 7 HANDLING AND STORAGE

Handling

Ventilation	Use in a well-ventilated area or local exhaust ventilation when handling in powder form. Fume hood recommended.
Dust Control	Minimise dust generation. Use care when opening containers and when weighing.
Ignition Sources	No open flames or sparks near powder quantities. Fine powders may form explosive dust-air mixtures.

Hygiene	Do not eat, drink, or smoke while handling. Wash hands and exposed skin thoroughly before eating or leaving work area.
Incompatibles	Keep away from strong oxidising agents, strong acids, and bases.

Storage

Temperature	+15°C to +25°C (controlled room temperature)
Humidity	Store in a cool, dry place — relative humidity ≤60%. Hygroscopic — keep container tightly sealed.
Light	Protect from direct sunlight and UV exposure. Store in original amber/dark container where possible.
Container	Keep tightly sealed in original container. Re-seal immediately after use.
Segregation	Store away from food, feed, and oxidising agents. Do not store with flammables.
Shelf Life	36 months from date of manufacture if stored as above. See label for expiry date.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Workplace Exposure Std.	No specific OEL/WES established for Wright Stain. Apply general good laboratory practice.
Engineering Controls	Use in a well-ventilated laboratory. Local exhaust ventilation (LEV) preferred when handling bulk quantities.
Monitoring	Routine atmospheric monitoring not required for typical laboratory-scale use.

PPE Item	Specification	When Required
Eye / Face Protection	Safety goggles (AS/NZS 1337) or face shield for dust-generating operations	Any handling of dry powder; splash risk from solutions
Hand Protection	Nitrile or latex gloves (EN 374 / AS/NZS 2161). Minimum 0.1 mm thickness.	All direct handling
Respiratory Protection	Particulate respirator P2 minimum (AS/NZS 1716) for activities generating dust	Weighing, pouring, any significant powder handling
Body / Skin Protection	Laboratory coat (cotton-polyester blend). Closed-toe footwear.	Routine laboratory use
Environmental Controls	Ensure wash facilities (eye wash station) are accessible. No smoking, eating, or drinking in work area.	Continuously during use

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid — fine powder

Appearance	Dark green to black powder; may appear purple-brown in solution
Colour	Dark green / black (dry); blue-purple (dissolved)
Odour	Slight, characteristic dye odour — not strong
Odour Threshold	Not determined
pH (solution)	Approximately 6.4–7.0 (in methanol/buffer solution)
Melting Point	Not determined (decomposes)
Boiling Point	Not applicable (solid)
Flash Point	Not applicable (solid)
Evaporation Rate	Not applicable (solid)
Flammability	Not classified as flammable
Vapour Pressure	Negligible at ambient temperature
Relative Density	Not determined
Solubility	Soluble in methanol and ethanol; slightly soluble in water
Partition Coeff. (LogP)	Not determined
Viscosity	Not applicable (solid)
Explosive Properties	Not classified as explosive
Oxidising Properties	Not classified as oxidising

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage conditions (15–25°C, dry, sealed, away from light).
Conditions to Avoid	Heat above 60°C · Direct sunlight / UV · High humidity · Open containers for extended periods
Materials to Avoid	Strong oxidising agents (may degrade dye) · Strong acids or bases (alter pH-dependent staining properties) · Chlorine-based bleach
Hazardous Reactions	No known hazardous polymerisation. No self-ignition under normal conditions.
Hazardous Decomp. Prods	Thermal decomposition (>200°C): carbon oxides, nitrogen oxides. No hazardous decomp. at ambient temperatures.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	No LD50 data available. Based on component chemistry, low acute oral toxicity expected.
Acute Dermal Toxicity	No data available. Skin absorption unlikely from solid powder.

Acute Inhalation	No specific data. Dust may cause mild irritation of nasal passages and upper respiratory tract.
Skin Irritation	May cause mild irritation or staining upon prolonged contact. Not classified as a skin sensitiser.
Eye Irritation	Dust and concentrated solutions may cause mild to moderate eye irritation.
Sensitisation	No known sensitising effects reported in literature.
Mutagenicity	Not classified as a mutagen. No evidence of genotoxicity in available data.
Carcinogenicity	Not classified as a carcinogen (IARC, NTP, OSHA). Not listed.
Reproductive Toxicity	Not classified. No evidence of reproductive or developmental toxicity.
STOT — Single Exposure	Not classified.
STOT — Repeated Exp.	Not classified. Avoid repeated, prolonged inhalation of dust.
Aspiration Hazard	Not applicable (solid).
Note	Data based on product class and analogous dye mixtures. Product-specific toxicological testing has not been performed.

SECTION 12 ECOLOGICAL INFORMATION

⚠ **PRECAUTION** Prevent large quantities from entering drains, waterways, or soil. The dye components may cause discolouration and potential toxicity to aquatic organisms at elevated concentrations.

Aquatic Toxicity	No specific ecotoxicological data available for this product. Dye components may be harmful to aquatic organisms at elevated concentrations.
Persistence / Degradability	Not readily biodegradable based on dye chemistry. May persist in the environment.
Bioaccumulative Potential	Bioaccumulation potential not determined. Based on molecular weight, significant bioaccumulation is unlikely.
Mobility in Soil	Limited data. May adsorb to soil particles due to dye nature.
Other Adverse Effects	Avoid contamination of water supplies. Do not flush to sewer in significant quantities.
Regulatory Status	Not listed under Australian IMAP assessment or Stockholm Convention POPs list.

SECTION 13 DISPOSAL CONSIDERATIONS

⚠ **PRECAUTION** Dispose of this product and its containers in accordance with Commonwealth, State/Territory, and local government regulations.

Product Disposal	Incinerate in a licensed facility, or dispose of via a registered chemical waste contractor. Do NOT pour down the sink or drain.

Contaminated Packaging	Dispose of empty containers in accordance with local regulations. Rinse container three times before disposal. Offer for recycling if facility is available.
Waste Classification	Assess under relevant State/Territory waste classification guidelines. May be classified as chemical waste depending on quantity.
Regulatory Reference	National Environment Protection (Movement of Controlled Waste between States and Territories) Measure (Controlled Waste NEPM) may apply.
Aqueous Solutions	Dilute methanol-based solutions must be treated as chemical waste. Do not dispose of to sewer.

SECTION 14 TRANSPORT INFORMATION

Regulation	UN Number	Class / Division	Status
ADG (Road/Rail — Aust.)	Not regulated	—	**Not dangerous goods**
IATA (Air freight)	Not regulated	—	**Not dangerous goods**
IMDG (Sea freight)	Not regulated	—	**Not dangerous goods**

No special transport precautions required. Package securely to prevent breakage or spillage during transit. Ensure containers are tightly sealed.

SECTION 15 REGULATORY INFORMATION

Australian AICIS	Assessed as exempt from industrial chemical registration for laboratory use quantities under the Industrial Chemicals Act 2019.
Poison Scheduling	Not listed in the Poisons Standard (SUSMP). Not a scheduled substance.
Safe Work Australia	This SDS is prepared in accordance with the Safe Work Australia Code of Practice: Preparation of Safety Data Sheets for Hazardous Chemicals (2020).
GHS Standard	UN GHS Revision 9. Not classified as hazardous.
Work Health & Safety	Complies with model WHS Regulations — not classified as a hazardous chemical for routine laboratory use.
REACH (EU reference)	Not subject to REACH (Australian product). CAS 68988-92-1 is not currently listed as SVHC.
Export Controls	No specific export restrictions identified. Verify importing country requirements before shipping.
State Regulations	Users are responsible for compliance with relevant State and Territory regulations, including occupational health and safety laws.

SECTION 16 OTHER INFORMATION

Prepared By	AuSaMiCs Pty Ltd — Quality Assurance Department

Document Number	SDS-ASD625-v1.0
Issue Date	01 January 2025
Review Date	01 January 2026 (or upon significant change to formulation or regulations)
Revision History	v1.0 — Initial issue
Intended Use Restriction	For laboratory and research use only. Not intended for therapeutic, human, veterinary, food, feed, or pharmaceutical use.
Information Sources	Formulation data sheets; NICNAS/AICIS chemical assessments; GHS UN Rev. 9; Safe Work Australia COP; US OSHA HazCom 2012; supplier technical data.
Abbreviations	ADG — Australian Dangerous Goods; AICIS — Australian Industrial Chemicals Introduction Scheme; COA — Certificate of Analysis; GHS — Globally Harmonised System; IARC — International Agency for Research on Cancer; IATA — International Air Transport Association; IMDG — International Maritime Dangerous Goods; LEV — Local Exhaust Ventilation; OEL — Occupational Exposure Limit; PPE — Personal Protective Equipment; SCBA — Self-Contained Breathing Apparatus; SDS — Safety Data Sheet; STOT — Specific Target Organ Toxicity; SUSMP — Standard for the Uniform Scheduling of Medicines and Poisons; TDI — Tolerable Daily Intake; WES — Workplace Exposure Standard.

AuSaMiCs Pty Ltd · Excellence in Life Science Reagents & Culture Media
31 Longview Ct, Thomastown VIC 3074 · ABN 56 676 640 467 · ausamics.com.au