

Safety Data Sheet **LILLIE MAYER HAEMATOXYLIN**

SDS no. X4FWA2VZ • Version 1.0 • Date of issue: 2025-12-08

SECTION 1: Identification

GHS Product identifier

Product name LILLIE MAYER HAEMATOXYLIN

Product number AHLM

Recommended use of the chemical and restrictions on use

Class 1 IVD. General purpose staining reagent for laboratory use.

Supplier's details

Name ChemSupply Australia Pty Ltd
Address 38-50 Bedford Street
5013 Gillman South Australia
Australia

Telephone 08 8440 2000
email www.chemsupply.com.au

National contact

Name Australian Biostain Pty Ltd
Address 16 Shipwright Road
5016 Largs North SA
Australia

Emergency phone number

CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)

SECTION 2: Hazard identification

General hazard statement

Not classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).

Classified as Hazardous according to the Globally Harmonised System of classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

Classification of the substance or mixture

GHS classification in accordance with: UN GHS revision 7

- Serious eye damage/eye irritation, Cat. 2
- Skin corrosion/irritation, Cat. 2

GHS label elements, including precautionary statements

Pictograms

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Signal word

Warning

Hazard statement(s)

H315

H319

Causes skin irritation

Causes serious eye irritation

Precautionary statement(s)

P280

P302+P352

P305+P351+P338

P332+P313

P337+P313

P362+P364

Wear protective gloves/protective clothing/eye protection/face protection.

IF ON SKIN: Wash with plenty of water/soap

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

SECTION 3: Composition/information on ingredients

Mixtures

Component	Identification	Weight %	Classifications
Water	CAS no.: 7732-18-5 EC no.: 231-791-2	>= 44 %	CLASSIFICATIONS: No data available. HAZARDS: No data available.
Glycerine	CAS no.: 56-81-5 EC no.: 200-289-5	< 35 %	CLASSIFICATIONS: No data available. HAZARDS: No data available.
Aluminum ammonium sulfate dodecahydrate	CAS no.: 7784-26-1 EC no.: 232-055-3	< 10 %	CLASSIFICATIONS: Eye damage/irritation, Cat. 2; Skin corrosion/irritation, Cat. 2; Specific target organ toxicity, single exposure, Cat. 3. HAZARDS: H315 - Causes skin irritation; H319 - Causes serious eye irritation; H335 - May cause respiratory irritation; H336 - May cause drowsiness or dizziness.
Ethanol	CAS no.: 64-17-5 EC no.: 200-578-6 Index no.: 603-002-00-5	< 5 %	CLASSIFICATIONS: Flammable liquids, Cat. 2; Eye damage/irritation, Cat. 2A. HAZARDS: H225 - Highly flammable liquid and vapor; H319 - Causes serious eye irritation.
Acetic acid	CAS no.: 64-19-7 EC no.: 200-580-7 Index no.: 607-002-00-6	< 2 %	CLASSIFICATIONS: Flammable liquids, Cat. 3; Skin corrosion/irritation, Cat. 1A. HAZARDS: H226 - Flammable liquid and vapor; H314 - Causes severe skin burns and eye damage. [SCLs/M-factors/ATEs]: Skin Corr. 1A; H314: C ≥ 90 %; Skin Corr. 1B; H314: 25 % ≤ C < 90 %; Skin Irrit. 2; H315: 10 % ≤ C < 25 %; Eye Irrit. 2; H319: 10 % ≤ C < 25 %
Haematoxylin	CAS no.: 517-28-2 EC no.: 208-237-3	< 1 %	CLASSIFICATIONS: Eye damage/irritation, Cat. 2A. HAZARDS: H319 - Causes serious eye irritation.

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Component	Identification	Weight %	Classifications
Sodium metaperiodate	CAS no.: 7790-28-5 EC no.: 232-197-6	< 0.1 %	CLASSIFICATIONS: Hazardous to the aquatic environment, short-term (acute), Cat. 1; Oxidizing solids, Cat. 1; Eye damage/irritation, Cat. 1; Skin corrosion/irritation, Cat. 1C; Specific target organ toxicity, repeated exposure, Cat. 1. HAZARDS: H271 - May cause fire or explosion; strong oxidizer; H314 - Causes severe skin burns and eye damage; H318 - Causes serious eye damage; H372 - Causes damage to organs [organs] through prolonged or repeated exposure [route]; H400 - Very toxic to aquatic life.

SECTION 4: First-aid measures

Description of necessary first-aid measures

General advice

First Aid Facilities: Maintain eyewash fountain in work area.

If inhaled

If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

In case of skin contact

Rinse with plenty of water. Get medical attention if irritation develops and persists.

In case of eye contact

If contact with the eye(s) occurs, wash with copious amounts of water for approximately 15 minutes holding eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. If persistent irritation occurs, obtain medical attention.

If swallowed

Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek medical advice if effects persist.

Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Indication of immediate medical attention and special treatment needed, if necessary

For advice, contact the National Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

SECTION 5: Fire-fighting measures

Suitable extinguishing media

Use water, CO₂, or dry chemical depending upon other chemicals that may be present in vicinity.

Specific hazards arising from the chemical

Only small quantities of decomposition products are expected from this product at temperatures normally achieved in a fire. This will only occur after heating to dryness.

Temperature and combustion of material in vicinity may cause formation of toxic fumes.

Ethanol: Carbon oxides

Special protective actions for fire-fighters

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Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Ensure that all handling is carried out in an area of good ventilation, Certified fume cupboards are recommended. Wear protective eyewear, nitrile gloves and apron.

In the event of spill confined to fume cupboard, contain spill with paper towel or similar absorbent material, collect into biohazard bag and seal for disposal with relevant authority. For spills outside of fume cupboard, contain spread of spill with paper towel, sawdust or vermiculite, collect into biohazard bags, seal and dispose through relevant authority; clean up area with cold (do not use hot water) soapy water.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel). Keep in suitable, closed containers for disposal.

SECTION 7: Handling and storage

Precautions for safe handling

Avoid fumes.

Wear Safety glasses, gloves and protective apron.

Work in an area of good ventilation, an approved fume cupboard is preferred.

No eating or drinking in workplace, wash hands whenever leaving work area.

Conditions for safe storage, including any incompatibilities

Keep containers tightly closed.

Read safety directions before use.

Avoid contact with metals.

SECTION 8: Exposure controls/personal protection

Control parameters

CAS: 56-81-5 (EC: 200-289-5)

Glycerine

ACGIH (USA): 10 mg/m³ TWA inhalation [Glycerol]; AU/SWA (Australia): 10 mg/m³ TWA inhalation [Glycerin mist]; Cal/OSHA: 10 mg/m³ , PNOR PEL inhalation [Glycerol]; 5 mg/m³, PNOR PEL inhalation [Glycerol]; OSHA: 15 mg/m³ PEL inhalation [Glycerol]; 5 mg/m³ PEL inhalation [Glycerol]; 15 mg/m³ TWA inhalation [Glycerol]; 5 mg/m³ TWA inhalation [Glycerol]

CAS: 64-17-5

Ethanol

ACGIH (USA): (ST) 1000 ppm TLV[®] inhalation [Ethyl alcohol (Ethanol)]; AU/SWA (Australia): 1000 ppm; 1880 mg/m³ TWA inhalation [Ethyl alcohol]; Cal/OSHA: 1000 ppm PEL inhalation [Ethyl alcohol (Ethanol)]; NIOSH: 1000 ppm REL inhalation [Ethyl alcohol (Ethanol)]; OSHA: 1000 ppm PEL inhalation [Ethyl alcohol (Ethanol)]; 1900 mg/m³ PEL inhalation [Ethyl alcohol (Ethanol)]

CAS: 64-19-7 (EC: 200-580-7)

Acetic acid

ACGIH (USA): 15 ppm STEL inhalation; 10 ppm, (ST) 15 ppm TLV[®] inhalation; 10 ppm TWA inhalation; AU/SWA (Australia): 15 ppm; 37 mg/m³ STEL inhalation; 10 ppm; 25 mg/m³ TWA inhalation; Cal/OSHA (USA): 40 ppm C inhalation; 10 ppm, (ST) 15 ppm, (C) 40 ppm PEL inhalation; 10 ppm, 25 mg/m³ PEL inhalation; 15 ppm, 37 mg/m³ STEL inhalation; NIOSH (USA): 10 ppm, (ST) 15 ppm REL inhalation; 15 ppm, 37 mg/m³ ST inhalation; 10 ppm, 25 mg/m³ TWA inhalation; OSHA (USA): 25 mg/m³ PEL inhalation; 10 ppm PEL inhalation; 10 ppm, 25 mg/m³ TWA inhalation

Appropriate engineering controls

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.

Individual protection measures, such as personal protective equipment (PPE)

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Eye/face protection

The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.

Skin protection

Clean impervious clothing should be worn. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

Body protection

Footwear: Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.

Body Protection: Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

Respiratory protection

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapor/ mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements. Reference should be made to Australian Standards AS/ NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/ NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

Physical state	Liquid
Appearance	
Color	Purple
Odor	No data available.
Odor threshold	No data available.
Melting point/freezing point	No data available.
Boiling point or initial boiling point and boiling range	No data available.
Flammability	No data available.
Lower and upper explosion limit/ flammability limit	No data available.
Flash point	No data available.
Explosive properties	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Oxidizing properties	No data available.
pH	>2
Kinematic viscosity	No data available.
Solubility	No data available.

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Partition coefficient n-octanol/ water (log value)	No data available.
Vapor pressure	No data available.
Evaporation rate	No data available.
Density and/or relative density	No data available.
Relative vapor density	No data available.
Particle characteristics	No data available.

Supplemental information regarding physical hazard classes

No data available.

Further safety characteristics (supplemental)

No data available.

SECTION 10: Stability and reactivity

Reactivity

Stable under normal conditions of storage and handling.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal use conditions.

Hazardous Polymerization: Will not occur.

Conditions to avoid

Temperature extremes and direct sunlight.

Incompatible materials

Strong oxidisers, metals.

Glycerine : Strong bases, Strong oxidizing agents

Acetic acid: Oxidizing agents, Soluble carbonates and phosphates, Hydroxides, Metals, Peroxides, permanganates, e.g. potassium permanganate, Amines, Alcohols, Nitric acid

Ethanol: Alkali metals, Oxidizing agents, Peroxides

Hazardous decomposition products

Other decomposition products - No data available In the event of fire: see section 5

Glycerine : Other decomposition products - No data available
In the event of fire: see section 5

Acetic acid: Hazardous decomposition products formed under fire conditions. - Carbon oxides

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Other decomposition products - No data available
In the event of fire: see section 5

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Ingestion: Significant oral exposure is considered to be unlikely and is unlikely to cause any irritation problems in the short or long term.

Inhalation: Unlikely to cause any irritation or discomfort.

Ethanol: ACGIH: A3 Confirmed animal carcinogen with unknown relevance to humans.

Skin corrosion/irritation

Mild skin irritation may occur.

Serious eye damage/irritation

May be irritating to the eyes.

Respiratory or skin sensitization

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

Specific target organ toxicity (STOT) - single exposure

Not classified based on available information.

Specific target organ toxicity (STOT) - repeated exposure

Not classified based on available information.

Aspiration hazard

Not classified based on available information.

Additional information

Even though no information may be available or a risk is considered minimal, this does not mean that an effect cannot occur. PLEASE NOTE:- PROTOCOLS IN WHICH THIS SOLUTION IS USED, OR THE PROXIMITY OF OTHER REAGENTS MAY SIGNIFICANTLY ALTER RISK STATUS.

Haematoxylin: *TOXICITY:

typ. dose mode specie amount unit other
TDLO ORL RAT 360 MG/KG/26WC TFX:CAR

*AQTX/TLM96: Not available

*SAX TOXICITY EVALUATION: Not available

*CARCINOGENICITY: Not available

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*MUTAGENICITY: Not available

*TERATOGENICITY: Not available

*STANDARDS, REGULATIONS & RECOMMENDATIONS:

OSHA: None

ACGIH: None

NIOSH Criteria Document: None

NFPA Hazard Rating: Health (H): None

Flammability (F): None

Reactivity (R): None

*OTHER TOXICITY DATA: Not available

Sodium metaperiodate: mouse LD50 intraperitoneal 58mg/kg (58mg/kg) Comptes Rendus Hebdomadaires des Seances, Academie des Sciences. Vol. 257, Pg. 791, 1963.

Ethanol: Stomach - Irregularities - Based on Human Evidence

SECTION 12: Ecological information

SECTION 13: Disposal considerations

Disposal methods

Product disposal

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers.

Other disposal recommendations

Do not discharge this material into waterways, drains and sewers.

SECTION 14: Transport information

ADG (Road and Rail)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

Australia SUSMP

Poison Schedule: NS

Canadian Domestic Substances List (DSL)

Chemical name: Benz[b]indeno[1,2-d]pyran-3,4,6a,9,10(6h)-pentol, 7,11b-dihydro-, cis-(++)-

CAS: 517-28-2

SARA 302 Components

No chemicals in this material [Glycerine] are subject to the reporting requirements of SARA Title III, Section 302.

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SARA 313 Components

This material [Glycerine] does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Chronic Health Hazard for: Glycerine .

Massachusetts Right To Know Components

Glycerol

CAS-No. 56-81-5 for: Glycerine .

Pennsylvania Right To Know Components

Glycerol

CAS-No. 56-81-5 for: Glycerine .

New Jersey Right To Know Components

Glycerol

CAS-No. 56-81-5 for: Glycerine .

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm for: Glycerine .

Canadian Domestic Substances List (DSL)

Chemical name: 1,2,3-Propanetriol

CAS: 30918-77-5

Canadian Domestic Substances List (DSL)

Chemical name: 1,2,3-Propanetriol

CAS: 56-81-5

Massachusetts Right To Know Components

Acetic acid

CAS number: 64-19-7

New Jersey Right To Know Components

Acetic acid

CAS number: 64-19-7

Pennsylvania Right To Know Components

Acetic acid

CAS number: 64-19-7

SARA 302 Components

No chemicals in this material [Acetic acid] are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material [Acetic acid] does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard, Chronic Health Hazard for: Acetic acid.

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm for: Acetic acid.

Canadian Domestic Substances List (DSL)

Chemical name: Acetic acid

CAS: 64-19-7

Canadian Domestic Substances List (DSL)

Chemical name: Sulfuric acid, aluminum ammonium salt (2:1:1), dodecahydrate

CAS: 7784-26-1

Canadian Domestic Substances List (DSL)

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Chemical name: Periodic acid (hio4), sodium salt
CAS: 7790-28-5

New Jersey Right To Know Components

Common name: Ethyl alcohol
CAS number: 64-17-5

Pennsylvania Right To Know Components

Chemical name: Ethanol
CAS number: 64-17-5

Massachusetts Right To Know Components

Chemical name: Ethanol
CAS number: 64-17-5

California Prop. 65 Components

WARNING! This product contains a chemical known to the State of California to cause cancer.
CAS-No. 64-17-5: Ethanol

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.
CAS-No. 64-17-5: Ethanol

Canadian Domestic Substances List (DSL)

Chemical name: Ethanol
CAS: 64-17-5

SARA 302 Components

No chemicals in this material [Water] are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material [Water] does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

No SARA Hazards for: Water.

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act for: Water.

Pennsylvania Right To Know Components

Water
CAS-No. 7732-18-5

New Jersey Right To Know Components

Water
CAS-No. 7732-18-5

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm for: Water.

Canadian Domestic Substances List (DSL)

Chemical name: Water
CAS: 7732-18-5

SECTION 16: Other information

Further information/disclaimer

ChemSupply Australia Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon ChemSupply Australia Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by

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description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of ChemSupply Australia Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

Preparation information

All information provided in this data sheet or by our technical representatives is compiled from the best knowledge available to us. However, since data, safety standards and government regulations are subject to change and the conditions of handling and use, or misuse, are beyond our control, we make no warranty either expressed or implied, with respect to the completeness or accuracy to the information contained herein. ChemSupply Australia Pty Ltd accepts no responsibility whatsoever for its accuracy or for any results that may be obtained by customers from using the data and disclaims all liability for reliance on information provided in this data sheet or by our technical representatives.

Standard for the Uniform Scheduling of Medicines and Poisons, Commonwealth of Australia

National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.'

Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals', July 2020.

Safe Work Australia, 'National Guide for Classifying Hazardous Chemicals', July 2020.

Safe Work Australia, Workplace Exposure Standards for Airborne Contaminants, December 2019

Safe Work Australia, Hazardous Chemical Information System (HCIS), hcis.safeworkaustralia.gov.au

IATA, Dangerous Goods Regulations (DGR)

IMO, International Maritime Dangerous Goods Code (IMDG)