

## Safety Data Sheet Eosin Erythrosin MPS Mod

SDS no. 3822MM9C • Version 1.0 • Date of issue: 2023-06-30

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### SECTION 1: Identification

#### GHS Product identifier

Product name Eosin Erythrosin MPS Mod

Product number AEMP

#### Recommended use of the chemical and restrictions on use

Laboratory reagent.

#### 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](http://www.chemsupply.com)

#### 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)

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### SECTION 2: Hazard identification

#### General hazard statement

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

Classified as non-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

Not a hazardous substance or mixture.

**GHS label elements, including precautionary statements**

Not a hazardous substance or mixture.

**Other hazards which do not result in classification**

Not a hazardous substance or mixture.

**SECTION 3: Composition/information on ingredients**

**Mixtures**

**Components**

<b>Component</b>	<b>Concentration</b>
<b>Water (CAS no.: 7732-18-5; EC no.: 231-791-2)</b>	<b>&gt;= 99 % (weight)</b>
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
<b>EOSIN (CAS no.: 17372-87-1; EC no.: 239-138-3)</b>	<b>&lt;= 0.5 % (weight)</b>
CLASSIFICATIONS: Serious eye damage/eye irritation, Cat. 2A. HAZARDS: H319 - Causes serious eye irritation.	
<b>Ethanol (CAS no.: 64-17-5; EC no.: 200-578-6; Index no.: 603-002-00-5)</b>	<b>&lt;= 0.2 % (weight)</b>
CLASSIFICATIONS: Flammable liquids, Cat. 2. HAZARDS: H225 - Highly flammable liquid and vapor.	
<b>Calcium nitrate tetrahydrate (CAS no.: 10124-37-5; EC no.: 233-332-1)</b>	<b>&lt;= 0.1 % (weight)</b>
CLASSIFICATIONS: Acute toxicity, oral, Cat. 4; Serious eye damage/eye irritation, Cat. 1. HAZARDS: H302 - Harmful if swallowed; H318 - Causes serious eye damage.	
<b>ERYTHROSIN B (CAS no.: 16423-68-0; EC no.: 235-440-4)</b>	<b>&lt;= 0.1 % (weight)</b>
CLASSIFICATIONS: Acute toxicity, oral, Cat. 4; Hazardous to the aquatic environment, long-term (chronic), Cat. 2. HAZARDS: H302 - Harmful if swallowed; H411 - Toxic to aquatic life with long lasting effects.	
<b>SODIUM AZIDE (CAS no.: 26628-22-8; EC no.: 247-852-1; Index no.: 011-004-00-7)</b>	<b>&lt;= 0.02 % (weight)</b>
CLASSIFICATIONS: Acute toxicity, dermal, Cat. 1; Acute toxicity, inhalation, Cat. 2; Acute toxicity, oral, Cat. 2; Specific target organ toxicity following repeated exposure, Cat. 2; Hazardous to the aquatic environment, short-term (acute), Cat. 1; Hazardous to the aquatic environment, long-term (chronic), Cat. 1. HAZARDS: No data available.	
<b>Thymol (CAS no.: 89-83-8; EC no.: 201-944-8; Index no.: 604-032-00-1)</b>	<b>&lt;= 0.01 % (weight)</b>
CLASSIFICATIONS: Acute toxicity, oral, Cat. 4; Skin corrosion/irritation, Cat. 1B; Hazardous to the aquatic environment, long-term (chronic), Cat. 2. HAZARDS: H302 - Harmful if swallowed; H314 - Causes severe skin burns and eye damage; H411 - Toxic to aquatic life with long lasting effects.	

**SECTION 4: First-aid measures**

**Description of necessary first-aid measures**

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.  First Aid Facilities: Maintain eyewash fountain in work area.
If inhaled	If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.
In case of skin contact	Irritation unlikely. If irritation occurs wash with plenty of soap and water.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.  If swallowed, do NOT induce vomiting.

**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**

Treat symptomatically based on judgement of doctor and individual reactions of the patient.

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**SECTION 5: Fire-fighting measures**

**Suitable extinguishing media**

Use water, CO<sub>2</sub>, 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.

**Special protective actions for fire-fighters**

Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode. Fight fire from safe location.

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**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 and dispose of in accordance with local and national regulations. Keep in suitable, closed containers for disposal.

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**SECTION 7: Handling and storage**

**Precautions for safe handling**

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**

Store in a cool, dry, well-ventilated area, out of direct sunlight. Store in suitable, labelled containers. Keep containers tightly closed. Store away from incompatible materials. Ensure that storage conditions comply with applicable local and national regulations.

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**SECTION 8: Exposure controls/personal protection**

**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)**

**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.

Hand Protection: Ensure hand protection complies with AS 2161, Occupational protective gloves - Selection, use and maintenance.

**Body protection**

Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

**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.

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**SECTION 9: Physical and chemical properties**

**Basic physical and chemical properties**

Physical state	Liquid
Appearance	Red liquid.
Color	Red
Odor	Faint odour of thymol.
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	Not flammable
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	No data available.
Kinematic viscosity	No data available.
Solubility	Solubility in Water: Miscible.
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.

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**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**

Stable.

**Conditions to avoid**

Temperature extremes and direct sunlight.

**Incompatible materials**

Strong oxidisers, metals.

**Hazardous decomposition products**

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

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**SECTION 11: Toxicological information**

**Information on toxicological effects**

**Acute toxicity**

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

Unlikely to cause any irritation or discomfort.

**Skin corrosion/irritation**

Mild skin irritation may occur.

**Serious eye damage/irritation**

May be irritating to the eyes.

**Respiratory or skin sensitization**

No data available.

**Germ cell mutagenicity**

No data available.

**Carcinogenicity**

No evidence of carcinogenic properties.

**Reproductive toxicity**

Based on available data, classification data are not met

**Specific target organ toxicity (STOT) - single exposure**

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No data available.

**Specific target organ toxicity (STOT) - repeated exposure**

No data available

**Aspiration hazard**

Based on available data, classification data are not met

**Additional information**

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**EOSIN: \*TOXICITY:**

typ. dose mode specie amount units other

LDLo ipr rat 500 mg/kg

LDLo scu rat 1500 mg/kg

LD50 orl mus 2344 mg/kg

LD50 ivn mus 550 mg/kg

LDLo ivn rbt 300 mg/kg

\*AQTX/TLM96: Not available

**\*SAX TOXICITY EVALUATION:**

THR = An experimental +/- carcinogen. MODERATE via intravenous route.

**\*CARCINOGENICITY:**

Tumorigenic Data:

TDLo: scu-rat 13 gm/kg/1Y-I

TD : scu-rat 14 gm/kg/78W-I

Review: IARC Cancer Review: Animal Inadequate Evidence

IARC: Not classifiable as a human carcinogen (Group 3) [610]

**\*MUTATION DATA:**

test lowest dose | test lowest dose

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dnr-bcs 2 mg/disc |

\*TERATOGENICITY (Reproductive Effects Data): 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:**

Status: Reported in EPA TSCA Inventory, 1983

EPA Genetic Toxicology Program, January 1984

Meets criteria for proposed OSHA Medical Records Rule

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# Safety Data Sheet

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Calcium nitrate tetrahydrate: rat LD50 oral 302mg/kg (302mg/kg) *Gigiena i Sanitariya*. For English translation, see HYSAAV. Vol. 46(12), Pg. 66, 1981.

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### SECTION 12: Ecological information

#### Toxicity

The product is believed to not be a dangerous to the environment with respect to mobility, persistency and degradability, bioaccumulative potential, aquatic toxicity and other measures or relating to ecotoxicity.

#### Persistence and degradability

No data available.

#### Bioaccumulative potential

No data available.

#### Mobility in soil

No data available.

#### Results of PBT and vPvB assessment

No data available.

#### Endocrine disrupting properties

No data available.

#### Other adverse effects

No data available.

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### 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.

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### SECTION 14: Transport information

#### ADG (Road and Rail)

Not dangerous goods

#### IMDG

Not dangerous goods

#### IATA

Not dangerous goods

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### SECTION 15: Regulatory information

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

#### Australia SUSMP

Poison Schedule: NS

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## **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 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](http://hcis.safeworkaustralia.gov.au)

IATA, Dangerous Goods Regulations (DGR)

IMO, International Maritime Dangerous Goods Code (IMDG)