

## MATERIAL SAFETY DATA SHEET

### SECTION 1 - IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Material Name:** Leishman stain.  
**Catalogue Number:** C104, C1041, C1045.  
**Other Names:** Eosin Methylene Blue Acc. To Leishman.; Eosin-polychrome methylene blue.  
**Recommended Use:** A neutral stain used mainly in haematology and tropical medicine

**Supplier Name:** ProSciTech  
**Street Address:** 1/11 Carlton Street, Kirwan, Qld. 4817 Australia  
**Telephone Number:** (07) 4773 9444 - 8:30am – 5:00pm, Monday to Friday (excluding Public Holidays)  
**Emergency Contact:** (07) 4773 9444 - 8:30am – 5:00pm, Monday to Friday (excluding Public Holidays)

### SECTION 2 - HAZARDS IDENTIFICATION

**Hazard Classification:**  
 Not classified as hazardous according to criteria for Classifying Hazardous Substances [NOHSC:1008].  
**Hazardous and/or Dangerous Nature:**  
 NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.  
**Risk Phrases:**  
 R36/38 Irritating to eyes and skin.  
**Safety Phrases:**  
 Not available.

*Refer to Section 15 for Poisons Schedule.*

### SECTION 3 - COMPOSITION /INFORMATION ON INGREDIENTS

**Pure Substance (Proportion 100%):**  
**Chemical Identity:** Leishman stain.  
**Common Name(s):** Eosin Methylene Blue Acc. To Leishman.; Eosin-polychrome methylene blue.  
**CAS Number:** 12627-53-1

### SECTION 4 - FIRST AID MEASURES

**Ingestion:** If victim is conscious and alert, give 2-4 cupfuls water or milk to drink. Do NOT induce vomiting. NEVER give anything by mouth to an unconscious person. Get medical attention if irritation or symptoms appear.  
**Inhalation:** Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.  
**Eye Contact:** Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.  
**Skin Contact:** In case of contact, flush skin with plenty of water for at least 15 minutes while removing contaminated clothes and shoes. Get medical attention if irritation develops or persists.  
**First Aid Facilities:** Eyebath/eyewash, Safety shower & general washroom facilities.  
**Medical Attention & Special Treatment:**  
 Treat symptomatically and supportively.  
**Additional Information:**  
 Not available.

### SECTION 5 - FIRE FIGHTING MEASURES

**Suitable Extinguishing Media:**  
 Water spray, foam, CO2, dry powder.  
**Hazards from Combustion Products:**  
 May form a flammable dust cloud on mixing with air in the presence of a source of ignition. May form an explosive dust cloud on mixing with air in the presence of a source of ignition. Can produce when heated fumes of nitrogen oxides, carbon monoxide, carbon dioxide.  
**Precautions for Fire Fighters:**  
 In the event of a fire, wear full protective clothing and NIOSH approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.  
**Hazchem Code:** Not available.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

### Emergency Procedures:

Remove all sources of ignition. Ventilate area of leak or spill. Clean-up personnel may require protection from dust. Use personal protective equipment as indicated in Section 8.

### Containment & Clean up:

Sweep up, mixing with sand or other inert material. Avoid generating dusty conditions. Provide ventilation. DO NOT FLUSH AWAY RESIDUE WITH WATER!

## SECTION 7 - HANDLING & STORAGE

### Precautions for Safe Handling:

Minimize dust generation and accumulation. Avoid contact with eyes, skin and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Use with adequate ventilation. Wash clothing before reuse.

### Precautions for Safe Storage:

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Isolate from ignition sources.

## SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

**National Exposure Standards:** No exposure standard allocated.

**Biological Limit Values:** No biological limit allocated.

### Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower. Use adequate ventilation to keep airborne concentrations low. A local exhaust system which captures the contaminant at its source is recommended to prevent dispersion of the contaminant into the workroom air.

### Personal Protective Equipment:

Eyes: Use chemical safety goggles. Contact lenses should not be worn when working with this material.

Maintain eye wash fountain and quick-drench facilities in work area.

Skin: Wear protective gloves and clean body-covering clothing.

Clothing: Wear appropriate protective clothing.

Respirators: For conditions of use where exposure to the dust is (NIOSH Approved) apparent, a dust/mist respirator may be worn. For emergencies, a self-contained breathing apparatus may be necessary.

## SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES

<b>Appearance:</b>	Dark green to black powder.
<b>Odour:</b>	Not available.
<b>pH:</b>	Not available.
<b>Vapour pressure (mm of Hg at °C):</b>	Not available.
<b>Vapour density:</b>	Not available.
<b>Boiling point/range (°C):</b>	Not available.
<b>Freezing/melting point (°C):</b>	79-81°C.
<b>Solubility:</b>	Not available.
<b>Specific gravity or density:</b>	Not available.
<b>Flash Point:</b>	Not available.
<b>Flammable (explosive) limits:</b>	Not available.
<b>Ignition temperature:</b>	Not available.
<b>Molecular Weight:</b>	171.0387
<b>Chemical Formula:</b>	C <sub>6</sub> H <sub>5</sub> NO <sub>5</sub>

## SECTION 10 - STABILITY AND REACTIVITY

<b>Chemical stability:</b>	Stable under normal conditions of use.
<b>Conditions to avoid:</b>	Incompatible materials, dust generation, excess heat.
<b>Incompatible Materials:</b>	Oxidizing agents.
<b>Hazardous Decomposition Products:</b>	Nitrogen oxides, carbon monoxide, carbon dioxide.
<b>Hazardous Reactions:</b>	Will not occur.

## SECTION 11 - TOXICOLOGICAL INFORMATION

### Exposure and Health Effects:

Effects may be delayed.

### Ingestion:

May be harmful if swallowed.

**Inhalation:**

May cause irritation to respiratory tract.

**Eye Contact:**

Irritating to eyes. May cause chemical conjunctivitis.

**Skin Contact:**

Irritating to skin. May be harmful if absorbed through skin.

**Human/Animal data:** No LD50/LC50 information found relating to normal routes of occupational exposure.

**Carcinogenic Category:** Not classified as a Carcinogen by the IARC.

**Other Carcinogenic Information:** CAS# 12627-53-1: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

## SECTION 12 – ECOLOGICAL INFORMATION

**Ecotoxicity:** Not available.

**Persistence and degradability:** Not available.

**Mobility:** Not available.

**Additional Information:** Not available.

## SECTION 13 - DISPOSAL CONSIDERATIONS

**Disposal Methods:**

Whatever cannot be saved for reclamation may be disposed in an approved chemical waste disposal facility or burned in an approved chemical incinerator equipped with an afterburner and scrubber.

ENSURE COMPLIANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

**Special Precautions/Additional Informational:**

Not available.

## SECTION 14 - TRANSPORT INFORMATION

**UN Number:** Not regulated.

**UN Proper Shipping Name:** Not regulated.

**Class and Subsidiary risk:** Not regulated.

**Packing Group:** Not regulated.

**Special Precautions for User:** Not available.

**Hazchem Code:** Not available.

## SECTION 15 - REGULATORY INFORMATION

**Poison Schedule Number:** None Allocated.

## SECTION 16 - OTHER INFORMATION

**Date of preparation of MSDS:** April 11

**Comments:**

**List of Publications referenced when creating this MSDS;**

- Hazardous Substances Information System Consolidated Lists: Safe Work Australia.
- APPROVED CRITERIA FOR CLASSIFYING HAZARDOUS SUBSTANCES [NOHSC:1008(2004)] 3rd Edition: National Occupational Health and Safety Commission.
- Dangerous Goods - Initial Emergency Response Guide (SAA/SNZ HB76:1997).
- IATA Dangerous Goods Regulations.
- Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)].
- Australia Standard for the Uniform Scheduling of Drugs and Poisons [SUSPD] (Australian Government Department of Health and Ageing).

*This Material Safety Data Sheet (MSDS) has been prepared in compliance with the National code of Practice for the Preparation of Material Safety Data Sheets 2<sup>nd</sup> Edition [NOHSC:2011(2003)]. It is the user's responsibility to determine the suitability of this information for adoption of necessary safety precautions. The information published in this MSDS has been compiled from the publications listed in Section 16: to the best of our ability and knowledge these publications are considered accurate. We reserve the right to revise Material Safety Data Sheets as new information becomes available. Copies may be made for non-profit use.*

... **End of MSDS** ...