



Safety Data Sheet
Methylene Blue Aqueous Solution

SECTION 1: Identification**GHS Product identifier**

Product name	Methylene Blue Aqueous Solution
Product number	MBA-500M, 1L, 2.5L, 5L
Brand	Hurstchem

Recommended use of the chemical and restrictions on use

Laboratory Reagent

Supplier's details

Name	Hurst Scientific
Address	2/36 Hensbrook Loop 6112 Forrestdale WA Australia
Telephone	1300 778 068
email	sales@hurstscientific.com.au

Emergency phone number

Australian Emergency Services: 000 (24 hours)
Australian Poisons Information Centre: 131 126 (24 hours)

SECTION 2: Hazard identification**General hazard statement**

Classified as a **NON-Hazardous** substance according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.
Classified as a **NON-Dangerous goods** according to the ADG Code for the Transport of Dangerous Goods by Road and Rail (7th Edition).

Classification of the substance or mixture

GHS classification in accordance with: Model WHS Regulations 2016

GHS label elements, including precautionary statements.

Pictograms

Safety Data Sheet

Methylene Blue Aqueous Solution

Signal word

Warning

Hazard statement(s)

H302

Harmful if swallowed.

Precautionary statement(s)

P264

Wash ... thoroughly after handling.

P270

Do not eat, drink, or smoke when using this product.

P280

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

P301+P312

IF SWALLOWED: Call a POISON CENTER /doctor/...if you feel unwell,

P330

Rinse mouth.

P403+P233

Store in a well-ventilated place. Keep container tightly closed.

P501

Dispose of contents/container to ...

SECTION 3: Composition/information on ingredients

Mixtures

Hazardous components

1. Water

Concentration

Balance

CAS no.

7732-18-5

2. METHYLENE BLUE TRIHYDRATE

Concentration

< 1 %

CAS no.

7220-79-3

SECTION 4: First-aid measures

Description of necessary first-aid measures

If inhaled

Evacuate to fresh air immediately. If irritation develops seek medical attention. If breathing stops apply artificial respiration.

In case of skin contact

Remove contaminated clothing and wash affected area with soap and water thoroughly. If irritation develops, seek medical attention.

In case of eye contact

Flush eyes with copious amounts of water for at least 15 minutes. If irritation develops or persists, seek medical attention.

If swallowed

DO NOT induce vomiting. Rinse with water and seek immediate medical attention.

Personal protective equipment for first-aid responders

Treat symptomatically.

SECTION 5: Fire-fighting measures

Suitable extinguishing media

Carbon Dioxide, dry chemical, water spray or foam.

Specific hazards arising from the chemical

Toxic gases may evolve.

Safety Data Sheet

Methylene Blue Aqueous Solution

Special protective actions for fire-fighters Wear SCBA (Self-Contained Breathing Apparatus) and full protective equipment.

SECTION 6: Accidental release measures

Personal precautions, protective equipment, and emergency procedures

Wear appropriate protective clothing. Ensure adequate ventilation. If possible, contain the spill.

Methods and materials for containment and cleaning up.

Absorb with vermiculite or other inert material and place into a suitably labelled container. Dispose of waste according to local authority guidelines. Do not contaminate drains or waterways.

SECTION 7: Handling and storage

Precautions for safe handling

Use only in an adequately ventilated area. Wear appropriate protective clothing to avoid any exposure and practice good personal hygiene.

Conditions for safe storage, including any incompatibilities.

Store in a cool, dry, well-ventilated area away from direct sunlight. Keep containers tightly closed.

SECTION 8: Exposure controls/personal protection

Appropriate engineering controls

Ensure adequate ventilation and ventilation if required.

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

Respiratory protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirators when necessary.

Eye/face protection

Safety glasses or chemical safety goggles.

Skin protection

Chemical resistant gloves and laboratory coat.

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

Physical state	Liquid
Appearance	Dark Green liquid
Odor	Odourless
Odor threshold	Not available
Melting point/freezing point	190°C
Boiling point or initial boiling point and boiling range	Not available
Flammability	Non-combustible
Lower and upper explosion limit/flammability limit	Not applicable
pH	Non-combustible
Solubility	Water Soluble
Density and/or relative density	1.2

SECTION 10: Stability and reactivity

Safety Data Sheet

Methylene Blue Aqueous Solution

Reactivity

Non-reactive under recommended conditions for use and storage.

Chemical stability

Stable under recommended conditions for use and storage.

Possibility of hazardous reactions

Polymerisation not expected to occur.

Conditions to avoid.

Direct sunlight, moisture, and incompatibles.

Incompatible materials

Oxidising agents, strong acids, and alkalis.

Hazardous decomposition products

Toxic gases may evolve.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Eye Contact: Can cause irritation, redness, lacrimation, and pain.

Skin Contact: Can cause irritation, redness, and itching.

Inhalation: Can cause irritation to the mucous membranes of the upper respiratory tract.

Ingestion: Can cause irritation and discomfort resulting in nausea, vomiting, abdominal pain and diarrhoea.

Skin corrosion/irritation

No classification.

Serious eye damage/irritation

No classification.

Respiratory or skin sensitization

No classification.

Germ cell mutagenicity

No classification.

Carcinogenicity

Classified as a Category 3 Carcinogen by the IARC. Not classifiable as to its Carcinogenicity to humans.

Reproductive toxicity

No classification.

Specific target organ toxicity (STOT) - single exposure.

No classification.

Specific target organ toxicity (STOT) - repeated exposure.

No classification.

Aspiration hazard

No classification.

Safety Data Sheet

Methylene Blue Aqueous Solution

Additional information

TOXICITY DATA: Oral, Rat: LD50 (mg/kg): 1180mg/kg

SECTION 12: Ecological information

Toxicity

Not available.

Persistence and degradability

Not available.

Bioaccumulate potential

Not expected to bio-accumulate.

Mobility in soil

Not available.

Other adverse effects

Environmental fate (exposure) Do not contaminate drains and waterways.

SECTION 13: Disposal considerations

Disposal methods

Product disposal

Dispose of in accordance with local authority guidelines.

SECTION 14: Transport information

Not classified as dangerous goods by the criteria of the Australian Dangerous Goods Code.

UN Number	None allocated.
UN Proper shipping name	None allocated.
Class and subsidiary risk	None allocated.
Packing group	None allocated.
Special precautions	None allocated.
Hazchem code	None allocated.

SECTION 15: Regulatory information

- **Poison Schedule:** Not scheduled.

SECTION 16: Other information

References

1. Safe Work Australia, Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice, (2011).
2. Safe Work Australia, National Code of Practice for the Labelling of Workplace Hazardous Chemicals (2015).
3. Safe Work Australia, Workplace Exposure Standards for Airborne Contaminants (2013)
4. National Transport Commission Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code); Can print: Canberra (2007), Volume 1, 7th Edition.
5. Standards Australia, Dangerous Goods Initial Emergency Response Guide: Australian Handbook (SAA/SNZ HB76); Homebush (2004).

Further information/disclaimer

This SDS is prepared in accordance with the Safe Work Australia, Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice, (2011). The information contained within is believed to be accurate at the date of preparation/review. Hurst Scientific makes no claims of the accuracy or completeness of the information and excludes all liability for any loss or damage

Safety Data Sheet

Methylene Blue Aqueous Solution

related to the supply or use of the information in this material safety data sheet. It is recommended the user make their own determinations as to the suitability of the information provided to the application in which the product is to be used.

Preparation information

Copyright © 2022 Hurst Scientific