

Safety Data Sheet TISSUE MARKER Solution BLUE

SDS no. 4DFP44Q8 • Version 1.0 • Date of issue: 2025-04-16

SECTION 1: Identification

GHS Product identifier

Product name TISSUE MARKER Solution BLUE

Product number ATMSB

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.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

- Acute toxicity, oral, Cat. 4
- Specific target organ toxicity following single exposure, Cat. 3

GHS label elements, including precautionary statements

Pictograms

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Signal word

Warning

Hazard statement(s)

H302
H335

Harmful if swallowed
May cause respiratory irritation

Precautionary statement(s)

P261
P301+P312
P403+P233
P501

Avoid breathing dust/fume/gas/mist/vapors/spray.
IF SWALLOWED: Call a POISON CENTER/doctor/phycsian if you feel unwell,
Store in a well-ventilated place. Keep container tightly closed.
Dispose of contents/container to an approved waste disposal facility

SECTION 3: Composition/information on ingredients

Mixtures

Component	Identification	Weight %
Water	CAS no.: 7732-18-5 EC no.: 231-791-2	>= 50 %
Ethylene glycol	CAS no.: 107-21-1 EC no.: 203-473-3 Index no.: 603-027-00-1	<= 30 %
Blue 15 b	CAS no.: 147-14-8 EC no.: 205-685-1	<= 20 %

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

Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. In all cases of eye contamination it is a sensible precaution to seek medical advice.

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

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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

Small fire: Use dry chemical, CO₂ or water spray.

Large fire: Use water spray, fog or foam - Do NOT use water jets.

If safe to do so, move undamaged containers from the fire area. Cool containers with flooding quantities of water until well after the fire is out. Avoid getting water inside the containers.

Specific hazards arising from the chemical

Hazards from Combustion Products: May liberate toxic fumes in fire (Carbon oxides).

May burn but do not ignite readily. Containers may explode when heated. Runoff may pollute waterways. Fire or heat may produce irritating, poisonous and/or corrosive gases.

Special protective actions for fire-fighters

Wear SCBA and structural firefighter's uniform.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment. For personal protection see section 8.

Methods and materials for containment and cleaning up

Do NOT touch or walk through this product. Stop leak if safe to do so. Prevent entry into waterways, drains, confined areas. Cover with DRY earth, sand or other non-combustible material followed by a plastic sheet to minimize spreading or contact with rain. Use clean, non-sparking tool to collect material and place it into loosely-covered plastic containers for later disposal.

SECTION 7: Handling and storage

Precautions for safe handling

Avoid contact with skin and eyes. Do not eat, drink or smoke while handling. Wash hands with soap and water after handling. For precautions see section 2.

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.

SECTION 8: Exposure controls/personal protection

Control parameters

CAS: 107-21-1

Ethylene glycol

AU/SWA (Australia): 40 ppm; 104 mg/m³ STEL inhalation [Ethylene glycol (vapour)]; 10 mg/m³ TWA inhalation [Ethylene glycol (particulate)]; 20 ppm; 52 mg/m³ TWA inhalation [Ethylene glycol (vapour)]

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.

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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 and apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

Respiratory protection

Where ventilation is not adequate, respiratory protection may be required. Avoid breathing dust, vapours or mists. Respiratory protection should comply with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

Physical state	Liquid
Appearance	
Color	Intense blue.
Odor	nil
Odor threshold	
Melting point/freezing point	n/a
Boiling point or initial boiling point and boiling range	n/a
Flammability	Not flammable
Lower and upper explosion limit/flammability limit	n/a
Flash point	n/a
Auto-ignition temperature	n/a
Decomposition temperature	n/a
pH	n/a
Kinematic viscosity	n/a
Solubility	n/a
Partition coefficient n-octanol/water (log value)	n/a
Vapor pressure	n/a

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Density and/or relative density	n/a
Relative vapor density	n/a
Particle characteristics	n/a

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

Avoid storing in direct sunlight and avoid extremes of temperature.

Incompatible materials

Ethylene glycol: Aluminium, ammonium dichromate, chromium trioxide, phosphorus pentasulfide, potassium permanganate, silver chlorate, sodium peroxide, sodium chloride, strong acids (chlorosulfonic acid, sulfuric acid and perchloric acid), strong bases, Strong oxidising agents and uranyl nitrate.

Hazardous decomposition products

Carbon dioxide and carbon monoxide.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Acute Toxicity - Oral: Ethylene glycol

LD50 (rat): >2000 mg/kg

LDLo Human: 786 mg/kg (RTECS)

Ingestion: Harmful if swallowed. Ethylene Glycol: Lethal dose in humans: 100 ml (3-4 ounces). Symptoms of ingestion are similar to those of alcohol poisoning and are followed by nausea, vomiting, headaches, abdominal pain, weakness, muscle tenderness, lowered blood pressure, rapid respiratory and heart rate, central nervous depression, respiratory failure, convulsions, cardiovascular collapse, pulmonary edema, hypocalcemic tetany and severe metabolic acidosis. Without treatment, death may occur within 8-24 hrs of ingestion. If death does not occur, acute kidney failure and brain damage may occur. Mild hypocalcemia is a common finding. Exposure to and/or consumptions of alcohol may increase toxic effects.

Inhalation: May cause irritation to respiratory tract. Symptoms may include nausea, vomiting, dizziness and drowsiness. When heated or misted, has caused rapid and involuntary eye movement followed by coma.

Skin corrosion/irritation

May be harmful if absorbed through skin. Will have a degreasing action on the skin.

Serious eye damage/irritation

May cause eye irritation, pain and eye damage.

Respiratory or skin sensitization

Not classified based on available information.

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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

Specific Target Organ Toxicity - Single Exposure Category 3 (respiratory tract irritation).
H335 May cause respiratory irritation.

Specific target organ toxicity (STOT) - repeated exposure

Not classified based on available information.

Aspiration hazard

Not classified based on available information.

Additional information

Chronic Effects: Repeated or prolonged skin contact may lead to mild irritation, penetration and slight softening. Repeated or prolonged exposure via inhalation/ingestion leads to respiratory failure, convulsions, CNS depression, cardiovascular collapse, pulmonary edema, severe metabolic acidosis and death. If death does not occur, acute kidney failure and brain damage may occur and dialysis may be required.

SECTION 12: Ecological information

Toxicity

Acute Toxicity - Fish: Ethylene glycol: LC50 (Onchorhynchus mykiss): >18500 mg/l/96 h.

Acute Toxicity - Daphnia: Ethylene glycol: EC50 (Daphnia magna): 74000 mg/l/24 h.

Bioaccumulative potential

Does not bioaccumulate.

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.

Sewage disposal

Does not bioaccumulate.

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

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SECTION 15: Regulatory information

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

Australia SUSMP

Poison Schedule: S6

SECTION 16: Other information

Further information/disclaimer

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Preparation information

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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)