HURST SCIENTIFIC

Safety Data Sheet
Toluidine Blue in Acetic Acid

SECTION 1: Identification

GHS Product identifier

Product name	Toluidine Blue in Acetic Acid
Product number	TOLU-100M, 500ML 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

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

Hazardous components

1. Water

Concentration	Balance
CAS no.	7732-18-5

2. Acetic acid

Concentration	0.25 % (volume)
CAS no.	64-19-7

3. Toluidine Blue O

Concentration	0.25 % (volume)
CAS no.	92-31-9

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

Use foam, dry chemical Carbon Dioxide, or water spray.

Specific hazards arising from the chemical.

Toxic gases may evolve.

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
National exposure standards Acetic acid (glacial):
[TWA] 10ppm, 25mg/m3
[STEL] 15ppm, 37mg/m3
Biological Limit Values Not available for this product.

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	Blue liquid
Odor	Vinegar - Like
Odor threshold	Not available
Melting point/freezing point	Not available
Boiling point or initial boiling point and boiling range	Not available
Lower and upper explosion limit/flammability limit	Not applicable
pH	Not available
Solubility	Soluble
Density and/or relative density	Not available

SECTION 10: Stability and reactivity

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.
Temperature extremes and direct sunlight.

Incompatible materials
Strong oxidisers, metals, and strong bases.

Hazardous decomposition products
Toxic gases may evolve.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity
Eye Contact: May cause irritation, redness, lacrimation, and pain.
Skin Contact: May cause irritation, redness, and itching.
Inhalation: May 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 data available.

Serious eye damage/irritation
No data available.

Respiratory or skin sensitization
No data available.

Germ cell mutagenicity
No data available.

Carcinogenicity
No classification by IARC.

Reproductive toxicity
No data available.

Specific target organ toxicity (STOT) - single exposure.
No data available.

Specific target organ toxicity (STOT) - repeated exposure.
No data available.

Aspiration hazard
No data available.

Additional information
TOXICITY DATA: No data available.

SECTION 12: Ecological information

Toxicity
Prevent contamination of drains and waterways.

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.

Other disposal recommendations
Nil

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

Chemical Safety Assessment
• **Poison Schedule:** Not scheduled.
• **TWA (Time Weighted Average):** The average airborne concentration of a particular substance when calculated over a normal eight hour working day, for a five-day week.
• **STEL (Short Term Exposure Limit)**: The average airborne concentration over a 15-minute period which should not be exceeded at any time during a normal eight-hour workday.

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 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