

# Safety Data Sheet

according to 29CFR1910/1200 and GHS Rev. 3

Effective date : 01.08.2015

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## Toluidine Blue Ind 0.5% w/v

### SECTION 1 : Identification of the substance/mixture and of the supplier

**Product name :** Toluidine Blue Ind 0.5% w/v

**Manufacturer/Supplier Trade name:**

**Manufacturer/Supplier Article number:** S25612

**Recommended uses of the product and uses restrictions on use:**

**Manufacturer Details:**

AquaPhoenix Scientific  
9 Barnhart Drive, Hanover, PA 17331

**Supplier Details:**

Fisher Science Education  
15 Jet View Drive, Rochester, NY 14624

**Emergency telephone number:**

Fisher Science Education Emergency Telephone No.: 800-535-5053

### SECTION 2 : Hazards identification

**Classification of the substance or mixture:**

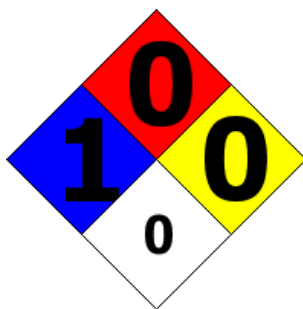
Not classified for physical or health hazards under GHS.

**Hazard statements:**

**Precautionary statements:**

**Other Non-GHS Classification:**

WHMIS  
NFPA/HMIS



NFPA SCALE (0-4)

Health	1
Flammability	0
Physical Hazard	0
Personal Protection	X

HMIS RATINGS (0-4)

### SECTION 3 : Composition/information on ingredients

#### Ingredients:

CAS 92-31-9	Toluidine Blue	0.5 %
CAS 77732-18-5	Water	99.5 %

Percentages are by weight

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#### SECTION 4 : First aid measures

##### Description of first aid measures

**After inhalation:** Move exposed individual to fresh air. Loosen clothing as necessary and position individual in a comfortable position. Seek medical advice if discomfort or irritation persists. If breathing difficult, give oxygen.

**After skin contact:** Wash affected area with soap and water. Rinse/flush exposed skin gently using water for 15-20 minutes. Seek medical advice if discomfort or irritation persists.

**After eye contact:** Protect unexposed eye. Rinse/flush exposed eye(s) gently using water for 15-20 minutes. Remove contact lens(es) if able to do so during rinsing. Seek medical attention if irritation persists or if concerned.

**After swallowing:** Rinse mouth thoroughly. Do not induce vomiting. Have exposed individual drink sips of water. Seek medical attention if irritation, discomfort or vomiting persists.

##### Most important symptoms and effects, both acute and delayed:

Irritation, Nausea, Headache, Shortness of breath.;

##### Indication of any immediate medical attention and special treatment needed:

If seeking medical attention, provide SDS document to physician.

#### SECTION 5 : Firefighting measures

##### Extinguishing media

**Suitable extinguishing agents:** If in laboratory setting, follow laboratory fire suppression procedures.

**For safety reasons unsuitable extinguishing agents:**

##### Special hazards arising from the substance or mixture:

##### Advice for firefighters:

**Protective equipment:** Use NIOSH-approved respiratory protection/breathing apparatus.

**Additional information (precautions):** Move product containers away from fire or keep cool with water spray as a protective measure, where feasible. Use spark-proof tools and explosion-proof equipment.

#### SECTION 6 : Accidental release measures

##### Personal precautions, protective equipment and emergency procedures:

Wear protective equipment. Ensure adequate ventilation. Stop the spill, if possible.

##### Environmental precautions:

Prevent from reaching drains, sewer or waterway. Collect contaminated soil for characterization per Section 13

##### Methods and material for containment and cleaning up:

If in a laboratory setting, follow Chemical Hygiene Plan procedures. Place into properly labeled containers for recovery or disposal. If necessary, use trained response staff/contractor. Collect liquid and dilute with water and release to drain. For larger spills, absorb with suitable material.

##### Reference to other sections:

#### SECTION 7 : Handling and storage

##### Precautions for safe handling:

Wash hands after handling. Follow good hygiene procedures when handling chemical materials. Use only in well ventilated areas. Avoid contact with eyes, skin, and clothing.

##### Conditions for safe storage, including any incompatibilities:

Provide ventilation for containers. Store away from foodstuffs. Store in cool, dry conditions in well sealed containers. Store with like hazards

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



**Control Parameters:**

No applicable occupational exposure limits

**Appropriate Engineering controls:**

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use/handling. Normal ventilation is adequate.

**Respiratory protection:**

Not required under normal conditions of use. Use suitable respiratory protective device when high concentrations are present. Use suitable respiratory protective device when aerosol or mist is formed. For spills, respiratory protection may be advisable.

**Protection of skin:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation being used/handled. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

**Eye protection:**

Safety glasses with side shields or goggles.

**General hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals. Keep away from food, beverages and feed sources. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Do not inhale gases/fumes/dust/mist/vapor/aerosols. Avoid contact with the eyes and skin.

#### SECTION 9 : Physical and chemical properties

<b>Appearance (physical state,color):</b>	Clear, bluish - purple liquid	<b>Explosion limit lower:</b> <b>Explosion limit upper:</b>	Not Determined Not Determined
<b>Odor:</b>	Odorless	<b>Vapor pressure:</b>	Not Determined
<b>Odor threshold:</b>	Not Determined	<b>Vapor density:</b>	Not Determined
<b>pH-value:</b>	Not Determined	<b>Relative density:</b>	Approx 1
<b>Melting/Freezing point:</b>	Approx 0 C	<b>Solubilities:</b>	Infinite solubility in water.
<b>Boiling point/Boiling range:</b>	Approx 100C	<b>Partition coefficient (n-octanol/water):</b>	Not Determined
<b>Flash point (closed cup):</b>	Not Determined	<b>Auto/Self-ignition temperature:</b>	Not Determined
<b>Evaporation rate:</b>	Not Determined	<b>Decomposition temperature:</b>	Not Determined
<b>Flammability (solid,gaseous):</b>	Not Determined	<b>Viscosity:</b>	a. Kinematic: Not Determined b. Dynamic: Not Determined
<b>Density:</b> Not Determined			

#### SECTION 10 : Stability and reactivity

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**Reactivity:**Nonreactive under normal conditions.

**Chemical stability:**No decomposition if used and stored according to specifications.

**Possible hazardous reactions:**None under normal processing

**Conditions to avoid:**Store away from oxidizing agents, strong acids or bases.Incompatible Materials.

**Incompatible materials:**Strong acids.Strong bases.

**Hazardous decomposition products:**Nitrogen oxides (NOx). Carbon oxides.

### SECTION 11 : Toxicological information

**Acute Toxicity:** No additional information.

**Chronic Toxicity:** No additional information.

**Corrosion Irritation:** No additional information.

<b>Sensitization:</b>	No additional information.
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<b>Single Target Organ (STOT):</b>	No additional information.
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<b>Numerical Measures:</b>	No additional information.
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<b>Carcinogenicity:</b>	No additional information.
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<b>Mutagenicity:</b>	No additional information.
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<b>Reproductive Toxicity:</b>	No additional information.
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### SECTION 12 : Ecological information

**Ecotoxicity Persistence and degradability:** Readily degradable in the environment.

**Bioaccumulative potential:**

**Mobility in soil:**

**Other adverse effects:**

### SECTION 13 : Disposal considerations

**Waste disposal recommendations:**

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11). Consult federal state/ provincial and local regulations regarding the proper disposal of waste material that may incorporate some amount of this product.

### SECTION 14 : Transport information

**UN-Number**

Not Dangerous Goods

**UN proper shipping name**

Not Dangerous Goods

**Transport hazard class(es)**

**Packing group:**Not Dangerous Goods

**Environmental hazard:**

**Transport in bulk:**

**Special precautions for user:**

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#### SECTION 15 : Regulatory information

##### United States (USA)

###### SARA Section 311/312 (Specific toxic chemical listings):

None of the ingredients is listed

###### SARA Section 313 (Specific toxic chemical listings):

None of the ingredients is listed

###### RCRA (hazardous waste code):

None of the ingredients is listed

###### TSCA (Toxic Substances Control Act):

All ingredients are listed.

###### CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):

None of the ingredients is listed

##### Proposition 65 (California):

###### Chemicals known to cause cancer:

None of the ingredients is listed

###### Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed

###### Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed

###### Chemicals known to cause developmental toxicity:

None of the ingredients is listed

##### Canada

###### Canadian Domestic Substances List (DSL):

All ingredients are listed.

###### Canadian NPRI Ingredient Disclosure list (limit 0.1%):

None of the ingredients is listed

###### Canadian NPRI Ingredient Disclosure list (limit 1%):

None of the ingredients is listed

#### SECTION 16 : Other information

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. Note: The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

##### GHS Full Text Phrases:

##### Abbreviations and acronyms:

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IMDG: International Maritime Code for Dangerous Goods  
PNEC: Predicted No-Effect Concentration (REACH)  
CFR: Code of Federal Regulations (USA)  
SARA: Superfund Amendments and Reauthorization Act (USA)  
RCRA: Resource Conservation and Recovery Act (USA)  
TSCA: Toxic Substances Control Act (USA)  
NPRI: National Pollutant Release Inventory (Canada)  
DOT: US Department of Transportation  
IATA: International Air Transport Association  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
ACGIH: American Conference of Governmental Industrial Hygienists  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
NFPA: National Fire Protection Association (USA)  
HMIS: Hazardous Materials Identification System (USA)  
WHMIS: Workplace Hazardous Materials Information System (Canada)  
DNEL: Derived No-Effect Level (REACH)

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