

Safety Data Sheet

Section 1. Identification	
Product Identification and Item Numbers:	Toluidine Blue O, 1% solution (TB/1)
Product Description:	Lab chemical
Recommended use and restrictions on use:	N/A
Supplier:	Delasco 608 13 th Avenue Council Bluffs, IA 51501 1-712-323-3269 www.delasco.com questions@delasco.com
In Case of Emergency, Contact:	Chemtrec (24 hour) 1-800-424-9300

Section 2. Hazard(s) Identification	
Classification:	
Not a hazardous substance or mixture.	
Labeling:	
Hazard symbol(s):	Not a hazardous substance or mixture.
Signal word:	Not a hazardous substance or mixture.
Hazard statements:	
Not a hazardous substance or mixture.	
Precautionary statements:	
Not a hazardous substance or mixture.	

Section 3. Composition/Information on Ingredients	
Chemical Name and Concentration:	Water 99% Toluidine Blue O 1%
Other Names, Common Names, Synonyms:	Tolonium Chloride; Blutene Chloride; C.I. Basic Blue 17
CAS Number, other unique identifiers:	Mixture: Water CAS# 7732-18-5 Toluidine Blue O CAS# 92-31-9
Other classified impurities or stabilizers:	N/A
Other ingredients posing health hazards:	N/A
Concentration of other hazardous ingredients:	N/A

Section 4. First-aid Measures	
Inhalation exposure:	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical attention.
Skin exposure:	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention if irritation develops. Consult a physician if necessary.
Eye contact:	Flush eye with water for 15 minutes. Get medical attention if irritation occurs.
Ingestion:	Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician if necessary.

Section 5. Fire Fighting Measures											
Suitable / unsuitable extinguishing media:	Carbon dioxide (CO ₂). Dry chemical. Water spray mist or foam.										
Specific hazards / combustion products:	Carbon oxides, Nitrogen oxides, Sulfur oxides										
Special protective equipment and precautions for fire-fighters:	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear										
NFPA Hazard Classification	<table border="0"> <tr> <td>Health – 1</td> <td>0-Minimal</td> </tr> <tr> <td>Flammability – 0</td> <td>1-Slight</td> </tr> <tr> <td>Instability – 0</td> <td>2-Moderate</td> </tr> <tr> <td></td> <td>3-Serious</td> </tr> <tr> <td></td> <td>4-Severe</td> </tr> </table>	Health – 1	0-Minimal	Flammability – 0	1-Slight	Instability – 0	2-Moderate		3-Serious		4-Severe
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Section 6. Accidental Release Measures	
Personal precautions and protective equipment:	Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing.
Environmental Precautions:	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Prevent entry into waterways, sewers, basements or confined areas.
Containment / clean up methods:	<ul style="list-style-type: none"> • Methods for containment - Prevent further leakage or spillage if safe to do so. Cover with plastic sheet to prevent spreading. • Methods for cleaning up – Absorb and dispose into suitable containers for disposal. Clean contaminated surface thoroughly.

Section 7. Handling and Storage	
Precautions for safe handling:	Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Do not breathe vapors/dust. Do not ingest. Use only in well-ventilated areas. Keep away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice.
Conditions for safe storage:	Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition. Store away from incompatible materials. Store at room temperature in the original container.
Incompatibilities to avoid:	Oxidizing agents.

Section 8. Exposure Controls and Personal Protection	
OSHA Permissible Exposure Limit (PEL):	N/A
Threshold Limit Value (TLV):	N/A
Other exposure limits:	N/A
Engineering controls:	Use process enclosures, local exhaust ventilation, or other engineering controls as necessary. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants low.
Personal protective equipment:	<p>Eye protection: Safety glasses with side-shields. Goggles.</p> <p>Skin and body protection: Long sleeved clothing. Apron. Gloves.</p> <p>Respiratory protection: Approved/certified respirator or equivalent to avoid mist.</p> <p>Hygiene measures: Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.</p>
Other personal protection measures:	Provide nearby eyewash station and safety shower.

Section 9. Physical and Chemical Properties	
Appearance (physical state, color, etc.):	Data not available.
Odor:	Data not available.
Odor threshold:	Data not available.
pH:	Data not available.
Melting point / freezing point:	Data not available.
Initial boiling point and boiling range:	Data not available.
Flash point:	Data not available.
Evaporation rate:	Data not available.
Flammability	Data not available.
Upper / lower flammability or explosive limits:	Data not available.
Vapor Pressure:	Data not available.
Vapor density:	Data not available.
Relative density:	Data not available.
Solubility:	Data not available.
Partition coefficient: n-octanol/water:	Data not available.
Auto-ignition temperature:	Data not available.
Decomposition temperature:	Data not available.
Viscosity:	Data not available.

Section 10. Stability and Reactivity	
Chemical stability:	The product is stable.
Possibility of hazardous reactions:	Reactive with oxidizing agents.
Conditions to avoid (static, shock, vibration...)	Heat. Ignition sources. Incompatible materials.
Incompatible materials:	Oxidizing agents.
Hazardous decomposition products:	Carbon oxides. Nitrogen oxides (NOx). Sulfur oxides. Hydrogen chloride gas.

Section 11. Toxicological Information	
Routes of exposure:	Ingestion. Inhalation.
Acute Symptoms (acute):	Skin Contact: May cause skin irritation. Eye Contact: May cause eye irritation. Inhalation: May cause respiratory irritation. Ingestion: May cause abdominal pain, nausea, vomiting, diarrhea, dyspnea (difficulty breathing), bluish tint of the skin, burning urination, and the urine to become dark blue to green depending on the concentration in the urine.
Symptoms (chronic): Chronic effects from short and long term exposure:	Not available.
Numerical measures of toxicity (e.g., acute toxicity estimates):	Not available.
NTP carcinogen:	Not listed.
EPA carcinogen:	Not available.
ACGIH carcinogen:	Not listed.
IARC potential carcinogen:	Not listed.
OSHA carcinogen:	Not listed.

Section 12. Ecological Information (Non-mandatory)	
Ecotoxicity (aquatic and terrestrial, where available):	Not available.
Persistence and degradability:	Not available
Bioaccumulative potential:	Not available
Mobility in soil:	Not available
Other adverse effects:	Not available

Section 13. Disposal Considerations (Non-mandatory)	
Safe methods of disposal:	Dispose of in accordance with federal, state and local environmental control regulations.

Section 14. Transport Information (Non-mandatory)						
US DOT	UN number:	N/A	Class:	N/A	Packing Group:	N/A
UN proper shipping name:			No information available.			
Packing group, if applicable:			N/A			
Environmental hazards (marine pollutant, etc...)			N/A			
Special transport precautions:			No information available.			

Section 15. Regulatory Information (Non-mandatory)	
Specific safety, health, and environmental regulations:	N/A

Section 16. Other information	
Date of preparation or last revision:	September 24, 2018