

## MATERIAL SAFETY DATA SHEET

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### Section I: IDENTIFICATION

*Product Name:* **Toluidine Blue 1%**

*Date Prepared:* 4/24/03

*Item Number:* 6054-04, 6054-16

*Emergency Phone:* 800-441-0366

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### Section II: HAZARDOUS INGREDIENTS

<i>Hazardous Component(s):</i>	<i>CAS#</i>	<i>OHSA PEL, ACGIH TLV/STEL(PPM)</i>	<b>NFPA</b>	
Toluidine Blue 1%	92-31-9	NE	Health	1
			Flammability	0
			Reactivity	0

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### Section III: PHYSICAL DATA

<i>Boiling Point:</i>	~200°F	<i>Specific Gravity (H<sub>2</sub>O = 1):</i>	~1
<i>Vapor Pressure mm Hg/20°C:</i>	79	<i>Percent Volatile by Vol:</i>	10%
<i>Vapor Density (Air 1:1):</i>	>1	<i>Evaporation Rate (ether = 1):</i>	>1
<i>Solubility in H<sub>2</sub>O:</i>	Complete	<i>Appearance &amp; Odor:</i>	Blue liquid, odorless

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### Section IV: FIRE/EXPLOSION HAZARD

*Flash Point:* NA                      *Flammable Limits:* NA                      UEL, NA  
*Extinguishing Media:* Water Spray, Dry Chemical, CO<sub>2</sub> and foam for alcohol  
*Special Fire Fighting Procedures:* Wear protective clothing with NIOSH approved breathing apparatus.  
Products of combustion may be harmful in a fire situation. Do not use direct water stream.  
*Unusual Fire & Explosion Hazards:* May emit toxic fumes under fire conditions.

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### Section V: REACTIVITY

*Stability:* Stable                      *Material to Avoid:* Strong oxidizers, chromic anhydride, perchloric acids etc.  
*Hazardous Decomposition or Byproducts:* Oxides of carbon  
*Hazardous Polymerization:* Does not occur                      *Conditions to Avoid:* Excessive heat

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### Section VI: HEALTH HAZARDS

*Routes of Entry:* Inhalation, Skin and Ingestion  
*Acute:* Vapors may cause eyes, skin and respiratory irritation.  
*Chronic:* May cause gastrointestinal disturbances.  
*Carcinogenicity:* Not classified as a human carcinogen.  
*Signs/Symptoms of Exposure:* Eye irritation.

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### Section VI: HEALTH HAZARDS

*Emergency First Aid:*

**Skin:** Remove contaminated clothing. Wash affected area with soap and water.

**Eyes:** Thoroughly flush eyes with water. Contact a physician if irritation persists.

**Ingestion:** Rinse mouth thoroughly with water, provide person is conscious and contact a physician.

**Inhalation:** Remove person to fresh air. If not breathing, give artificial respiration and contact physician.

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### Section VII: SAFE HANDLING

*Chemical Release or Spill:* Isolate the spill area with sand, or other absorbent material. Place all contaminated material in close container for disposal.

*Waste Disposal Method:* All liquid and or contaminated material should be disposed of in DOT approved waste containers. Incineration for liquids is the suggested method of disposal. Comply with all Federal, State and Local regulations for disposal.

*Precautions for Handling and Storing:* Normal laboratory precautions. Avoid excessive heat.

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### Section VIII: CONTROL MEASURES

*Respiratory Protection:* Not normally required. If used in a poorly ventilated area use under an approved fume hood or NIOSH approved respirator.

*Ventilation:* Mechanical exhaust is sufficient.

*Protective Gloves:* Chemical resistant      *Eye Protection:* Safety Glasses

*Other Protective Clothing or Equipment:* Normal laboratory apparel suggested by Good Laboratory Practices

*Work/Hygienic Practices:* Wash thoroughly with soap and water after handling.

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The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. Astraldiagnosics shall not be held liable for any damage resulting from handling or contact with this product.

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