

***MSDS******Material Safety Data Sheet***

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TELEPHONE NUMBER  
CALL CHEMTREC  
1-800-424-9300

189 Twin County Road • Morgantown, PA 19543 • (610) 524-5810

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## METHYLENE BLUE, Loeffler

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### Section I: PRODUCT IDENTIFICATION

**Name:** *METHYLENE BLUE, Loeffler*

**Azer Scientific Product Number:** ES880,ES878

**Product Description:** METHYLENE BLUE, Loeffler

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### Section II: HAZARDOUS INGREDIENTS / EXPOSURE LIMITS

<b>Component(s):</b>	<b>CAS Number</b>	<b>OHSA PEL, ACGIH TLV/STEL</b>	
Methyl Alcohol ~1%	67-56-1	200	200/250
Ethyl Alcohol 21%	64-17-5	1000	1000/NR

<b>NFPA</b>	Health	1
	Flammability	3
	Reactivity	0

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### Section III: PHYSICAL / CHEMICAL COMPOSITION

<b>Boiling Point:</b>	~148°F	<b>Specific Gravity (H<sub>2</sub>O = 1):</b>	0.79
<b>Vapor Pressure mm Hg/20°C:</b>	96	<b>Percent Volatile by Vol.:</b>	91%
<b>Vapor Density (Air 1:1):</b>	1.11	<b>Evaporation Rate (ether = 1) :</b>	>1
<b>Solubility in H<sub>2</sub>O:</b>	Complete	<b>Appearance &amp; Odor:</b>	Blue liquid, alcoholic odor

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### Section IV: FIRE/EXPLOSION HAZARD DATA

**Flash Point:** 54°F TCC      **Flammable Limits:** LEL: 6.7      UEL: 36.5  
**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:* Eliminate sources of ignition. Burns with invisible flame.

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## **Section V: REACTIVITY DATA**

*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, sparks or flames

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## **Section VI: HEALTH HAZARD DATA**

*Routes of Entry:* Inhalation, Skin and Ingestion

*Acute:* Vapors may cause eyes, skin and respiratory irritation, drowsiness, nausea, headache and vomiting.

*Chronic:* May cause liver, heart and kidney damage. May cause gastrointestinal disturbances and convulsions.

*Carcinogenicity:* Not classified as a human carcinogen.

*Signs/Symptoms of Exposure:* Vision blurring, drowsiness and headache.

### **\*\*\*\*\* Emergency First Aid \*\*\*\*\***

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

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

*Ingestion:* Rinse mouth thoroughly with water, provided 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:* Eliminate source of ignition in the vicinity of the spill or released vapor. 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. Comply with all Federal, State and Local regulations for disposal.

*Precautions for Handling and Storing:* Use precautions for flammable liquids. Avoid excessive heat and sources of ignition. For large quantities, store in flammable safety cabinet. Use in well-ventilated area.

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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:* Special flammable exhaust hood if vapor concentration is high. In well-ventilated areas, 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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