



MATERIAL SAFETY DATA SHEET  
Methylene Blue, Solution 0.015%, Redox Indicator

### Section 1 - Chemical Product and Company Identification

**MSDS Name:** Methylene Blue, Solution 0.015%, Redox Indicator  
**Catalog Numbers:** M/4870L/08  
**Synonyms:** Mixture, SM79  
**Company Identification:** Fisher Scientific UK  
 Bishop Meadow Road, Loughborough  
 Leics. LE11 5RG  
**For information in Europe, call:** (01509) 231166  
**Emergency Number, Europe:** 01509 231166

### Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	%	EINECS#	Hazard Symbols:	Risk Phrases:
61-73-4	Methylene Blue	<1.0	200-515-2		
7732-18-5	Water	Balance	231-791-2		

Text for R-phrases: see Section 16

**Hazard Symbols:** None listed

**Risk Phrases:** None listed

### Section 3 - Hazards Identification

#### EMERGENCY OVERVIEW

*Not available*

#### Potential Health Effects

**Eye:** This product contains a cationic dye. Similar dyes have caused permanent injury to the cornea and conjunctiva in documented exposure cases with human or rabbit eyes.

**Skin:** Non-irritating to the skin.

**Ingestion:** No hazard expected in normal industrial use.

**Inhalation:** No hazard expected in normal industrial use.

**Chronic:**

### Section 4 - First Aid Measures

**Eyes:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

**Skin:** Get medical aid if irritation develops or persists. Flush skin with plenty of soap and water.

**Ingestion:** Get medical aid if irritation or symptoms occur.

**Inhalation:** Get medical aid if cough or other symptoms appear.

**Notes to Physician:**

### Section 5 - Fire Fighting Measures

**General Information:** Material will not burn.

**Extinguishing Media:** Substance is noncombustible; use agent most appropriate to extinguish surrounding fire.

### Section 6 - Accidental Release Measures

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:** Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container.

### Section 7 - Handling and Storage

**Handling:** Wash thoroughly after handling. Use with adequate ventilation.

**Storage:** Keep container closed when not in use.

### Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:**

Good general ventilation should be sufficient to control airborne levels.

**Exposure Limits**

CAS# 61-73-4:

CAS# 7732-18-5:

**Personal Protective Equipment**

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to minimize contact with skin.

**Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

### Section 9 - Physical and Chemical Properties

**Physical State:** Liquid

**Color:** blue

**Odor:** odorless

**pH:** Not available

**Vapor Pressure:** 14 mm Hg

**Viscosity:** Not available

**Boiling Point:** 100 deg C ( 212.00°F)

**Freezing/Melting Point:** 0 deg C ( 32.00°F)

**Autoignition Temperature:** Not available

**Flash Point:** Not available

**Explosion Limits: Lower:** Not available

**Explosion Limits: Upper:** Not available

**Decomposition Temperature:** Not available

**Solubility in water:** Soluble

**Specific Gravity/Density:** 1.0

**Molecular Formula:** Mixture

**Molecular Weight:**

### Section 10 - Stability and Reactivity

<b>Chemical Stability:</b>	Stable under normal temperatures and pressures.
<b>Conditions to Avoid:</b>	None reported.
<b>Incompatibilities with Other Materials</b>	Not available
<b>Hazardous Decomposition Products</b>	None.
<b>Hazardous Polymerization</b>	Has not been reported.

### Section 11 - Toxicological Information

<b>RTECS#:</b>	CAS# 61-73-4: SO5600000 CAS# 7732-18-5: ZC0110000
<b>LD50/LC50:</b>	RTECS: <b>CAS# 61-73-4:</b> Oral, mouse: LD50 = 3500 mg/kg; Oral, rat: LD50 = 1180 mg/kg; . RTECS: <b>CAS# 7732-18-5:</b> Oral, rat: LD50 = >90 mL/kg; .
<b>Carcinogenicity:</b>	Methylene Blue - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65. Water - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
<b>Other:</b>	See actual entry in RTECS for complete information.

### Section 12 - Ecological Information

Not available

### Section 13 - Disposal Considerations

Products considered hazardous for supply are classified as Special Waste and the disposal of such chemicals is covered by regulations which may vary according to location. Contact a specialist disposal company or the local authority or advice. Empty containers must be decontaminated before returning for recycling.

### Section 14 - Transport Information

	<b>IATA</b>	<b>IMO</b>	<b>RID/ADR</b>
<b>Shipping Name:</b>	Not available	Not available	Not available
<b>Hazard Class:</b>			
<b>UN Number:</b>			
<b>Packing Group:</b>			

### Section 15 - Regulatory Information

#### European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available

Risk Phrases:

Safety Phrases:

WGK (Water Danger/Protection)

CAS# 61-73-4: 2

CAS# 7732-18-5: Not available

Canada

CAS# 61-73-4 is listed on Canada's DSL List

CAS# 7732-18-5 is listed on Canada's DSL List

## US Federal

### TSCA

CAS# 61-73-4 is listed on the TSCA Inventory.

CAS# 7732-18-5 is listed on the TSCA Inventory.

## Section 16 - Other Information

### Text for R-phrases from Section 2

**MSDS Creation Date:** 12/12/1997

**Revision #7 Date** 3/25/2008

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