

# Material Safety Data Sheet

## Section 1: Company and Product Identification

### Science Kit & Boreal Laboratories

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24 HOUR EMERGENCY ASSISTANCE CHEMTREC 800-424-9300		
HAZARD RATING		
4- EXTREME	HEALTH	1
3- SEVERE		
2- MODERATE	FLAMMABILITY	0
1- SLIGHT		
0- MINIMAL	REACTIVITY	0

Product Name **Methylene Blue Solution**

Material Uses Not available.

Product No. 83756-03

Synonyms Not available.

CAS 61-73-4

Formula  $C_{16}H_{18}N_3SCl \cdot 3H_2O$

## Section 2: Hazardous Ingredients

Product Name	CAS	Conc (%)	PIN
1) Methylene Blue	7220-79-3	1	N/A
2) Water (Non-hazardous)	7732-18-5	99	N/A

For Exposure Limits (TLV, PEL), LD50 and LC50 see section 5 of this document.

\* Chemical subject to the reporting of SARA Title III.

## Section 3: Physical Data

Appearance	Liquid.	Odor Threshold	Not available.
Color	Blue. (Dark.)	Vapor Pressure	Not available.
Odor	Not available.	Evaporation Rate (Reference solvent)	Not available.
Specific Gravity (Water = 1)	Not available.	Vapor Density (Air = 1)	Not available.
Melting Point	Not available.	Percent Volatile by Volume	Not available.
Boiling Point	Not available.	pH (1% water soln)	Not available.
Water/Oil Dist. Coeff.	Not available.	Solubility	Miscible in water.

## Section 4: Fire and Explosion Hazard Data

Flash Point (Methods)	Not applicable.	Autoignition Temp.	Not applicable.
Flammable Limits in Air by Volume	Not applicable.		
Flammability	Not applicable.		

Explosion Hazard Not available.

Haz. Comb. Prod. Not applicable.

Means of Extinction Use extinguishing media suitable for surrounding materials.

### Special Fire Fighting Procedures

Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

### Unusual Fire and Explosion Hazards

Not available.

## Section 5: Health Hazard Data

Exposure Limits (P.E.L., TLV, etc.) Not available.

Acute Effects Hazardous in case of eye contact (irritant). Slightly hazardous in case of skin contact (permeator), of ingestion.

Routes of Entry Absorbed through skin. Eye contact. LD50/LC50 LD50: Not available.  
LC50: Not available.

### Effects of Overexposure

Repeated or prolonged exposure is not known to aggravate medical condition.

### Emergency and First Aid Procedures

SKIN: Wash contaminated skin with soap and water. EYES: Flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. INHALATION: Move exposed person to fresh air. INGESTION: If affected person is conscious, give plenty of water to drink.

## Section 6: Reactivity Data

Stability The product is stable. Instability Temp. Not available.

Incompatibility Reactive with oxidizing agents.

Degradation Prod. These products are carbon oxides (CO, CO<sub>2</sub>) and water, nitrogen oxides (NO, NO<sub>2</sub>), sulfur oxides (SO<sub>2</sub>, SO<sub>3</sub>), halogenated compounds. Hazardous polymerization? Will not occur.

Materials to Avoid Not available.

## Section 7: Spill or Leak Procedures

Spill Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Disposal Waste must be disposed of in accordance with federal, state and local environmental control regulations.

## Section 8: Protection Equipment Information

Equipment Safety glasses. Lab coat. Vinyl gloves.

Engineering Controls Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

## Section 9: Other Information

Special Precautions Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (Section 8). Follow all fire fighting procedures (Section 4).

Read label on container before using. Do not wear contact lenses when working with chemicals.

Verified by S. Quandt Effective Date Printed 2/12/2001

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

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