



Material Safety Data Sheet
Methylene Blue Solution 0.1 - 1%

Section 1 - Chemical Product and Company Identification

MSDS Name:

Methylene Blue Solution 0.1 - 1%

Catalog Numbers:

LC16900

Synonyms:

None.

Company Identification:

LabChem, Inc.
200 William Pitt Way
Pittsburgh, PA 15238

Company Phone Number:

(412) 826-5230

Emergency Phone Number:

(800) 424-9300

CHEMTREC Phone Number:

(800) 424-9300

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	Percent
7732-18-5	Water	balance
61-73-4	Methylene blue	0.1 - 1

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: blue

May cause irritation to eyes and skin.

Target Organs: None.

Potential Health Effects

Eye:

May cause eye irritation.

Skin:

May cause irritation, redness, and staining of the skin.

Ingestion:

May cause gastrointestinal irritation.



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Inhalation:

May cause respiratory tract irritation.

Chronic:

May cause inflammation of skin, eyes, respiratory and digestive tracts.

Section 4 - First Aid Measures

Eyes:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids until no evidence of chemical remains. Get medical aid at once.

Skin:

Get medical aid. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion:

Get medical aid at once. If victim is conscious, give 2-4 glasses of water and induce vomiting.

Inhalation:

Give artificial respiration if necessary. Get medical aid. Keep victim warm, at rest. Move victim to fresh air.

Notes to Physician:

Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information:

Negligible fire and explosion hazard when exposed to heat or flame.

Extinguishing Media:

In case of fire use water spray, dry chemical, carbon dioxide, or appropriate foam.

Autoignition Temperature:

Not applicable.

Flash Point:

Not applicable.

NFPA Rating:

CAS# 7732-18-5: Not published.

CAS# 61-73-4: Not published.

Explosion Limits:

Lower: No information Upper: No information

Section 6 - Accidental Release Measures

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Absorb spills with absorbent (vermiculite, sand, fuller's earth) and place in plastic bags for later disposal.



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Section 7 - Handling and Storage

Handling:

Store in a cool, dry area.

Storage:

Store in a cool, dry area.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

Provide general dilution ventilation.

Exposure Limits

Chemical Name:	ACGIH	NIOSH	OSHA
Water	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.
Methylene blue	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.

OSHA Vacated PELs

Personal Protective Equipment

Eyes:

Wear chemical goggles.

Skin:

Wear appropriate protective clothing to minimize contact with skin.

Clothing:

Wear appropriate protective clothing to minimize contact with skin.

Respirators:

Not required for normal use.

Section 9 - Physical and Chemical Properties

Physical State: Clear liquid

Color: blue

Odor: odorless

pH: acidic

Vapor Pressure: 14 mm Hg

Vapor Density: 0.7

Evaporation Rate: >1

Viscosity: No information found.

Boiling Point: 100°C (212.00°F)

Freezing/Melting Point: 0°C (32.00°F)

Decomposition Temperature: No information found.

Solubility in water: Soluble.



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Specific Gravity/Density: 1.0

Molecular Formula: C₁₆H₁₈CIN₃SO₃

Molecular Weight 367.6573

Section 10 - Stability and Reactivity

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Water reactive materials, i.e., sodium, sulfuric acid..

Incompatibilities with Other Materials

Water reactive substances (e.g. sulfuric acid, sodium metal, potassium metal, calcium carbide).

Hazardous Decomposition Products

Negligible hazard.

Hazardous Polymerization

Section 11 - Toxicological Information

RTECS:

CAS# 7732-18-5: ZC0110000.

CAS# 61-73-4: SO5600000.

LD50/LC50:

CAS# 7732-18-5:

Oral, rat: LD50 = >90 mL/kg.

CAS# 61-73-4:

Oral, mouse: LD50 = 3500 mg/kg

Oral, rat: LD50 = 1180 mg/kg.

Carcinogenicity:

CAS# 7732-18-5: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

CAS# 61-73-4: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

Epidemiology:

None reported.

Teratogenicity:

None reported.

Reproductive:

None reported.

Mutagenicity

None reported.

Neurotoxicity

None reported.

Section 12 - Ecological Information

No information found.



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Section 13 - Disposal Considerations

Dispose of in accordance with federal, state, and local regulations.

Section 14 - Transport Information

US DOT

Shipping Name: Not regulated

Hazard Class:

UN Number:

Packing Group:

Section 15 - Regulatory Information

US Federal

TSCA

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

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

SARA Reportable Quantities (RQ)

None of the components are on this list.

CERCLA/SARA Section 313

None of the components are on this list.

OSHA - Highly Hazardous

None of the components are on this list.

US State

State Right to Know

California Regulations

European/International Regulations

Canadian DSL/NDSL

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

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

Canada Ingredient Disclosure List

CAS# 7732-18-5 is not listed on Canada's Ingredient Disclosure List.

CAS# 61-73-4 is listed on Canada's Ingredient Disclosure List.

Section 16 - Other Information

MSDS Creation Date: December 17, 1999

Revision Date: February 23, 2004



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