



## Material Safety Data Sheet New Methylene Blue N

### Section 1 - Chemical Product and Company Identification

**MSDS Name:**

New Methylene Blue N

**Catalog Numbers:**

LC17660

**Synonyms:****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
6487-48-5	Potassium Oxalate	1.6
6586-05-6	New Methylene Blue N	0.5

### Section 3 - Hazards Identification

#### Emergency Overview

**Appearance:** *Dark blue solution*

**Caution!** May cause kidney damage. May cause eye, skin, respiratory, and digestive tract irritation. May cause hypocalcemia, which impairs nervous and cardiac tissue function.

**Target Organs:** *Blood, kidneys, central nervous system, brain, eyes.*

#### Potential Health Effects

**Eye:**

May cause eye irritation and possible burns.

**Skin:**

May cause skin irritation and possible burns. May cause skin lesions and slow-healing ulcers.

**Ingestion:**

May be harmful if ingested. May cause digestive tract irritation. May cause lethargy, ataxia, nervousness, weakness, muscle tremors, convulsions, staggering, depression, rapid pulse, hypotension, dysrhythmia, and rapid labored respiration. May cause anuria, proteinuria, albuminuria, hematuria, and nephrosis from kidney damage. May cause low blood calcium levels.



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**Inhalation:**

May cause irritation to nose, throat, mucous membranes, and respiratory tract. Inhalation can cause systemic poisoning.

**Chronic:**

Prolonged or repeated skin contact may cause dermatitis. Prolonged or repeated eye contact may cause conjunctivitis. Repeated ingestion may lead to kidney damage, anemia, emaciation due to poor appetite, and impaired function of cardiac and nervous tissue due to hypocalcemia.

### 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.

**Skin:**

Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

**Ingestion:**

Call a poison control center. If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical aid.

**Inhalation:**

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid. Do NOT use mouth-to-mouth resuscitation.

**Notes to Physician:**

Treat symptomatically and supportively.

### Section 5 - Fire Fighting Measures

**General Information:**

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

**Extinguishing Media:**

For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam.

**Autoignition Temperature:**

No information found.

**Flash Point:**

No information found.

**NFPA Rating:**

CAS# 7732-18-5: H-0; F-0; I-0

CAS# 6487-48-5: H-2; F-1; I-0

CAS# 6586-05-6: H-2; F-1; I-0

**Explosion Limits:**

Lower: N/A Upper: N/A



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### 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.

### Section 7 - Handling and Storage

**Handling:**

Wash thoroughly after handling. Avoid prolonged or repeated contact with skin. Keep away from incompatible materials.

**Storage:**

Store tightly capped in a cool, dry area.

### Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:**

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

**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.
Potassium oxalate	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 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 gloves to prevent skin exposure.

**Clothing:**

Wear appropriate protective clothing to prevent skin exposure.

**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: Dark blue



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<b>Odor:</b>	Odorless
<b>pH:</b>	Neutral
<b>Vapor Pressure:</b>	No information found.
<b>Vapor Density:</b>	No information found.
<b>Evaporation Rate:</b>	No information found.
<b>Viscosity:</b>	No information found.
<b>Boiling Point:</b>	>100°C (>212°F)
<b>Freezing/Melting Point:</b>	<0°C (<32°F)
<b>Decomposition Temperature:</b>	No information found.
<b>Solubility in water:</b>	Soluble
<b>Specific Gravity/Density:</b>	1.0 – 1.1
<b>Molecular Formula:</b>	No information found.
<b>Molecular Weight:</b>	No information found.

### Section 10 - Stability and Reactivity

**Chemical Stability:**

Stable under normal temperatures and pressures.

**Conditions to Avoid:**

Excess heat, incompatible materials.

**Incompatibilities with Other Materials:**

Oxidizing agents, reducing agents, acids, alkalis, silver compounds, hypochlorites, chlorites.

**Hazardous Decomposition Products:**

Oxides of carbon, oxides of potassium, oxides of nitrogen.

**Hazardous Polymerization:**

Has not been reported.

### Section 11 - Toxicological Information

**RTECS:**

CAS# 7732-18-5: ZC0110000.

CAS# 6487-48-5: RO2885000.

CAS# 6586-05-6: Not available.

**LD50/LC50:**

CAS# 7732-18-5:

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

CAS# 6487-48-5:

No information found.

CAS# 6586-05-6:

No information found.

**Carcinogenicity:**

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

CAS# 6487-48-5: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

CAS# 6586-05-6: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

**Epidemiology:**

No information found.



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**Teratogenicity:**

No information found.

**Reproductive:**

No information found.

**Mutagenicity:**

No information found

**Neurotoxicity:**

No information found

### Section 12 - Ecological Information

No information found

### 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# 6487-48-5 is not listed on the TSCA Inventory.

CAS# 6586-05-6 is not 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 chemicals in this product are considered highly hazardous by OSHA.

**US State**

**State Right to Know:**

None.

**California Regulations:**

None.



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### European/International Regulations

#### Canadian DSL/NDSL:

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

CAS# 6487-48-5 is not listed on Canada's DSL List.

CAS# 6586-05-6 is not listed on Canada's DSL List.

#### Canada Ingredient Disclosure List:

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

CAS# 6487-48-5 is not listed on Canada's Ingredient Disclosure List.

CAS# 6586-05-6 is not listed on Canada's Ingredient Disclosure List.

### Section 16 - Other Information

MSDS Creation Date: November 12, 1997

Revision Date: August 12, 2008

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