SDS #: 525.50

Revision Date: February 6, 2014

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION	
Methylene Blue Electrophoresis Stain, 10X Concentrate	
Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261 CHEMTREC Emergency Phone Number: (800) 424-9300 Signal Word N/A	Pictograms
SECTION 2 — HAZARDS IDENTIFICATION	
This chemical is considered nonhazardous according to GHS classifications for the Hazard Communicat Standard. Treat all laboratory chemicals with caution.	tion
Although this material is considered to be nonhazardous, unpredictable reactions among chemicals are a possible. Prudent laboratory practices should be observed.	ılways

SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Methylene blue trihydrate	7220-79-3	$C_{16}H_{18}CIN_3S\cdot 3H_2O$ $H_2NC(CH_2OH)_3$	373.90	0.2%
Tris(hydroxymethyl)aminomethane	77-86-1		121.14	0.5%
Acetic acid	64-19-7	$\begin{array}{c} H_{2} C(CH_{2}OH_{3}) \\ CH_{3}COOH \\ C_{10}H_{14}N_{2}Na_{2}O_{8} CH_{2}O \\ H_{2}O \end{array}$	60.05	<0.2%
Ethylenediaminetetraacetic acid, disodium salt, dihydrate	6381-92-6		372.25	<0.1%
Water	7732-18-5		18.00	99%

SECTION 4 — FIRST AID MEASURES

Call a POISON CENTER or physician if you feel unwell.

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing. If on skin: Wash with plenty of water.

If swallowed: Rinse mouth. Call a POISON CENTER or physician if you feel unwell.

SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable, noncombustible solution. **In case of fire:** Use a tri-class dry chemical fire extinguisher. NFPA Code None established

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Contain the spill with sand or absorbent material and deposit in a sealed bag or container. See Sections 8 and 13 for further information.

Methylene Blue Electrophoresis Stain, 10X

SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Organic #9. Store with dyes, indicators and stains. Keep container tightly closed. Store in a cool, dry place.

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection. Wash hands thoroughly after handling. Will stain skin, clothing, and surfaces.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Deep blue liquid. Slight vinegar odor.

Biological use: DNA stain for electrophoresis. Use instructions: Mix 10 mL with 90 mL water.

SECTION 10 — STABILITY AND REACTIVITY

Shelf life: Indefinite, if stored properly.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: N.A. Chronic effects: N.A. Target organs: N.A. ORL-RAT LD_{50} : 1180 mg/kg (as methylene blue) IHL-RAT LC_{50} : N.A. SKN-RBT LD_{50} : N.A.

N.A. = Not available, not all health aspects of this substance have been fully investigated.

SECTION 12 — ECOLOGICAL INFORMATION

Data not yet available.

SECTION 13 — DISPOSAL CONSIDERATIONS

Please review all federal, state and local regulations that may apply before proceeding. Flinn Suggested Disposal Method #26b is one option.

SECTION 14 — TRANSPORT INFORMATION

Shipping name: Not regulated. Hazard class: N/A. UN number: N/A.

N/A = Not applicable

SECTION 15 — REGULATORY INFORMATION

Not listed.

SECTION 16 — OTHER INFORMATION

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Consult your copy of the *Flinn Science Catalog/Reference Manual* for additional information about laboratory chemicals. **Revision Date:** February 6, 2014

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