

Material Safety Data Sheet

Date Issued: 04/29/2015

The information contained herein is based on the present state of our knowledge. It has been supplied for the purposes of protecting the health and safety of personnel handling the product under normal conditions.

Section 1: Company and Product Identification

Company Name: Bioenno Tech, LLC

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Product Name: Methyl Green Solution (Catalog Number: 003027)

Product Description: Methyl green is a nuclear counterstain that stains cell nuclei light green. This solution can be applied to routine histological sections, sections with completed histochemistry, immunohistochemistry, *in situ* hybridization, or Golgi staining, as well as cultured cells. The solution (Catalog Number: 003027) is designed for *in vitro* laboratory research use only, not for diagnostic and other uses.

Appearance: 1 plastic bottle (8 oz or 250 ml).

Section 2: Composition and Information on Ingredients

Methyl Green Solution contains methyl green (CAS # 7114-03-6) with a concentration less than 1% (% by weight). Mixture of substances is not hazardous according to the criteria of the Occupational Safety & Health Administration (OSHA).

Section 3: Hazards Identification

Potential Acute Health Effects

Irritant. Irritating to skin, eyes, and respiratory system.

Classification of the substance or mixture

Not a hazardous substance or mixture.

GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

Section 4: First Aid Measures

Skin contact: May cause skin irritation following contact. In case of contact, immediately wash affected area with plenty of water while removing contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Eye contact: In case of contact, check for and remove any contact lenses, and immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Seek medical attention at hospital.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention at hospital immediately.

Ingestion: Ingestion is not an expected route of exposure during normal use of the product. If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Seek medical attention immediately.

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.

Flammability of the Product: Non-flammable.

Auto-Ignition Temperature: Not available.

Flash Points: Not applicable.

Fire Fighting Media and Instructions: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special Remarks on Fire Hazards: Not available.

Section 6: Accidental Release Measures

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

Spills & Leaks: Absorb with paper towel or similar material and place in an appropriate waste disposal container, then rinse with water and dry. In the event of a vial breakage, wear gloves and carefully remove all glass to designated containers. Wash area with water thoroughly.

Section 7: Handling and Storage

Personnel: Standard laboratory practices and good personal hygiene is recommended.

Handling: Avoid inhalation and contact with skin and eyes while handling. Wear gloves, appropriate eye and face protection, and suitable protective clothing while handling the solution. Wash hands thoroughly after handling.

Storage: The solution is to be stored at 2–25°C. Do not freeze. Keep container tightly closed. The counterstain solution is light sensitive. Keep out of the reach of children.

Section 8: Exposure Controls, Personal Protection

Engineering Controls: Facilities storing or utilizing the solution should be equipped with an eyewash facility and a safety shower.

Exposure Limits: None listed.

Personal Protective Equipment:

- **Eyes:** Wear chemical splash goggles and face shield.
- **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: Green.

Odor: None.

Vapor Pressure: Not available.

Auto-Ignition Temperature: Not applicable.

Flash Point: Not applicable.

Decomposition Temperature: Not available.

Solubility in Water: Soluble.

Section 10: Stability and Reactivity Information

Stability: Stable.

Conditions to Avoid: Strong oxidizers, high temperatures, acids, halogens.

Materials to Avoid: Alkalis and strong bases.

Hazardous Decomposition Products: Not known to occur.

Hazardous Polymerization: Information not available.

Section 11: Toxicological Information

Acute effects: Irritating to eyes, respiratory system, and skin.

Chronic effects: Not determined

Mutagenic Effects: Mutagenic for bacteria and/or yeast.

Teratogenic Effects: Not available.

Section 12: Ecological Information

Data not yet available.

Section 13: Disposal Consideration

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

Section 14: Transport Information

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

Section 15: Regulatory Information**SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Section 16: Other Information

MSDS Creation Date: 04/29/2015

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.