

## Methyl Green Counterstainer Safety Data Sheet

### SECTION 1: IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY

#### 1.1 Product identifier

Product: **Methyl Green Counterstainer**

Catalog Numbers:

CAT. #	Concentration	VOL
BSB 0122	Ready-To-Use	15.0 ml
BSB 0123	Ready-To-Use	50.0 ml
BSB 0124	Ready-To-Use	100.0 ml
BSB 0125	Ready-To-Use	200.0 ml
BSB 0126	Ready-To-Use	500.0 ml
BSB 0127	Ready-To-Use	1000.0 ml

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended use: Immunohistochemistry (IHC) reagent for detection/ancillary reagent.  
Not intended for use in humans or animals.

#### 1.3 Details of the supplier of the safety data sheet

Manufacturer: Bio SB, Inc.  
Street Address: 69 Santa Felicia Dr.  
City, State, Zip, Country: Santa Barbara, CA 93117, USA  
Technical Phone: +1-805-692 2768  
Fax: +1-805-692 2769  
E-mail: [sales@biosb.com](mailto:sales@biosb.com)

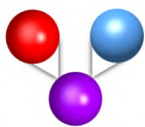
#### 1.4 Emergency telephone number

Telephone number: +1-805-692 2768 (9 AM - 5 PM PST, M-F)

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the mixture

Skin Irritation (Category 2)- H315  
Eye irritation (Category 2)-H319  
Reproductive toxicity (Category 2)-H361  
Acute aquatic toxicity (category 3)-H402



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Chronic aquatic toxicity (Category 3) – H412

For the full Text for all Hazard Statements mentioned in this Section, see Section 16.

### 2.2 Label elements

Label in Accordance With (EC) No. 1272/2008



Hazard Pictograms: GHS05, GHS07 GHS09

Signal Word: Danger

Hazard Statements:

- H315 Causes skin irritation (Category 2).
- H319 Causes serious eye irritation (Category 2).
- H412 Harmful to aquatic life with long lasting effects (Category 2).

Precautionary Statements:

- Prevention: P302+ P352 IF ON SKIN: wash with plenty of soap and water.
- P305+ P351+P315 IF IN EYES: Rinse cautiously with water for several minutes. Get immediate medical advice/attention.
- P273 Avoid release to the environment.

Storage:

- P403+ P233 Store in a well-ventilated place. Keep container tightly closed.
- P501 Dispose of contents and container in accordance with all local, regional, national and international regulations.

NFPA Scale: 0 - 4		
	HEALTH	<b>2</b>
HMIS (U.S.A.) Scale: 0 - 4	FLAMMABILITY	<b>0</b>
	PHYSICAL HAZARD	<b>0</b>
	PERSONAL PROTECTION	<b>B</b>

### 2.3 Other information

Hazards not otherwise classified: none

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### SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

#### 3.1 Chemical Description: Mixture

Component	Chemical Name	% Conc.	CAS#	EC#	Classification (pure ingredient)	Classification
Malachite Green Carbinol Hydrochloride		≤ 0.2	123333-61-9			Danger 3 H301 toxic if swallowed. 1 H318 causes serious eye damage. 2H316 suspected of damaging fertility or the unborn child.1 H410 very toxic to aquatic life with long lasting effects

The Full Text for all Hazard Statements are displayed in Section 16. There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and do not require report in this section. Occupational exposure limits, if available, are listed in Section 8.

### SECTION 4: FIRST AID MEASURES

#### 4.1. Description of first aid measures

Inhalation:	In case of inhalation of spray mist: Move person into fresh air and keep at rest. Get medical attention if any discomfort continues. If breathing stops, provide artificial respiration. Get medical attention immediately!
Ingestion:	Immediately rinse mouth and drink plenty of water (200-300 ml). DO NOT INDUCE VOMITING! NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Get medical attention.
Skin contact:	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention promptly if symptoms occur after washing.
Eye contact:	Promptly wash eyes with plenty of water while lifting the eye lids. Make sure to remove any contact lenses from the eyes before rinsing. Continue to rinse for at least 15 minutes. Obtain medical attention and bring these instructions.
Self-protection of the first aider:	Use personal protective equipment as required.

#### 4.2. Most important symptoms and effects, both acute and delayed

Inhalation	May cause coughing or mild irritation
Ingestion	May cause discomfort if swallowed
Skin contact	Prolonged skin contact may cause redness and irritation
Eye contact	May cause temporary eye irritation

#### 4.3. Indication of any immediate medical attention and special treatment needed

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If seeking medical attention show Safety Data Sheet to physician. Treat Symptomatically.

### **SECTION 5: FIREFIGHTING MEASURES**

#### **5.1. Extinguishing media**

Extinguishing media: Fire can be extinguished using: Water spray, alcohol resistance foam, carbon dioxide.

#### **5.2. Special hazards arising from the substance or mixture**

No unusual fire or explosive hazards expected

#### **5.3. Advice for firefighters**

Protective equipment for fire-fighters: Self-contained NIOSH/MSHA (approved or equivalent) breathing apparatus and full protective chemical resistant clothing, gloves, and eye protection must be worn. In case of fire, use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

#### **6.1. Personal precautions, protective equipment and emergency procedures**

Use chemical resistant personal protective equipment, gloves and eye protection. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

#### **6.2. Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not allow to enter drains, sewers or watercourses. Keep material away from heat, flame, ignition sources, and reactive materials

#### **6.3. Methods and material for containment and cleaning up**

Ensure adequate ventilation. Absorb spillage with suitable inert absorbent material. Collect spillage in suitable waste containers, seal securely and deliver for disposal according to local regulations.

#### **6.4. Reference to other sections**

Wear protective clothing as described in Section 8 of this safety data sheet. For waste disposal, see section 13.

### **SECTION 7: HANDLING AND STORAGE**

#### **7.1. Precautions for safe handling**

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Avoid inhalation of vapors/spray and contact with skin and eyes. Avoid formation of dust and aerosols. Avoid contact with skin and eyes. Wash thoroughly after handling.

Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.

Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.

### 7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place. Refer to product label.

Storage Class (TRGS 510): Non-combustible, acute toxic cat 3/toxic hazardous materials or hazardous materials causing chronic effects. Store at 15-30°C.

### 7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

Components with workplace control parameters: none

### 8.2. Exposure controls

Protective equipment:	Impermeable gloves and safety glasses.
Process conditions:	Provide eyewash station.
Engineering measures:	Provide adequate ventilation. Observe occupational exposure limits and minimize the risk of inhalation of spray.
Respiratory equipment:	No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit.
Hand protection:	Use suitable chemical resistant protective gloves if risk of skin contact. The most suitable glove must be chosen in consultation with the glove's supplier, who can inform about the breakthrough time of the glove material. Nitrile gloves are recommended but be aware that the liquid may penetrate the gloves. Not suitable for permanent contact. Frequent change is advisable. Latex or Nitrile gloves; thickness 0.11 mm, ASTM F1671, DIN EN 374 or equivalent; AQL 1.5.
Eye protection:	If risk of splashing, wear safety goggles or face shield. DIN 166 or equivalent.
Other Protection:	Wear appropriate clothing to prevent any possibility of skin contact.
Skin protection:	Wear apron or protective clothing in case of contact. Wash contaminated clothing before reuse.
Control of Environmental Exposure	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

Appearance:	Liquid
Color:	Bluish green

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Odor:	Odorless
Odor Threshold:	Not determined
pH Value:	3.0 ± 0.2
Initial boiling point and boiling range:	No data available
Melting point (°C):	No data available
Flash Point:	Not determined
Evaporation rate	Not determined
Flammability Limit –(solid/gas):	Not applicable
Upper /Lower Flammability Limit (%):	Not applicable
Vapor density (air=1):	Not determined
Vapor pressure:	Not determined
Relative density:	Not determined
Solubility:	Soluble in water
Solubility Value (G/100G H <sub>2</sub> O@20°C):	Not determined
Partition Coefficient (N-Octanol/Water):	Not determined
Auto Ignition Temperature (°C):	Not determined
Decomposition temperature (°C):	Not determined
Explosive properties:	Not applicable
Oxidizing properties:	No data available

### 9.2. Other information

None

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

There are no known reactivity hazards associated with this product.

### 10.2. Chemical stability

Stable under normal temperature conditions.

### 10.3. Possibility of hazardous reactions

No relevant information available for these concentrations

### 10.4. Conditions to avoid

Avoid exposure to high temperatures, moisture, static electricity or direct sunlight.

### 10.5. Incompatible materials

none known

### 10.6. Hazardous decomposition products

none known

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### SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1. Information on toxicological effects

Toxicological information	No information available
Acute toxicity:	Quantitative data about toxicity of this product not available
Skin Corrosion/Irritation:	corrosive to skin and mucous membranes
Human Skin Model Test:	No data available
Serious eye damage/irritation:	corrosive to eye
Respiratory sensitization:	No data available
Skin sensitization:	No data available
Germ cell mutagenicity (InVitro):	No data available
Carcinogenicity:	No data available
Reproductive Toxicity – Fertility:	No data available
Specific target organ toxicity - single exposure:	
STOT - Single exposure:	Not determined
Specific target organ toxicity - repeated exposure:	
STOT - Repeated exposure:	Not determined
Aspiration hazard:	
Viscosity:	Not determined
Inhalation:	In high concentrations, vapors may irritate throat and respiratory system and cause coughing.
Ingestion;	Harmful if swallowed.
Skin contact:	skin irritant
Eye contact:	Spray and vapor in the eyes may cause irritation and smarting.
Health Warnings:	
Route of entry:	Ingestion. Skin and/or eye contact.

### SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: There are no data on the ecotoxicity of this product.

#### 12.1. Toxicity

No data available.

#### 12.2. Persistence and degradability

Degradability: no data available on the degradability of this product. This product is expected to be not readily biodegradable.

#### 12.3. Bioaccumulative potential

Bioaccumulative potential: No data available on bioaccumulation. The product does not contain any substances expected to be bioaccumulating.

Partition coefficient: Not determined.

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### 12.4. Mobility in soil

Mobility: The product is soluble in water.

### 12.5. Results of PBT and vPvB assessment

This mixture does not contain any substances assessed to be a PBT or vPvB.

### 12.6. Other adverse effects

Not determined.

## SECTION 13: DISPOSAL CONSIDERATIONS

General information Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority.

### 13.1. Waste treatment methods

Waste Disposal Methods: Dispose of waste and residues in accordance with local authority requirements.  
Product/Packaging Disposal: Decisions on the appropriate waste management method must be in line with local, regional and national regulations.

## SECTION 14: TRANSPORTATION INFORMATION

General: Not dangerous goods. The product is not covered by international regulation on the transport of dangerous goods [IMDG, IATA, ADR/RID, DOT (US)].

Road Transport Notes: Not Classified.

Rail Transport Notes: Not classified.

Sea Transport Notes: Not classified.

Air Transport Notes: Not classified.

### 14.1. UN number

Not applicable.

### 14.2. UN proper shipping name

Not applicable.

### 14.3. Transport hazard class(es)

Not applicable.

### 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant: yes

### 14.6. Special precautions for user

Not applicable.

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code



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This product is not intended to be transported in bulk as defined in Annex II of MARPOL73/78 and the IBC Code.

### SECTION 15: REGULATORY INFORMATION

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Approved Code of Practice: Classification and Labeling of Substances and Preparations Dangerous for Supply. Safety Data Sheets for Substances and Preparations.  
Guidance Notes: Workplace Exposure Limits EH40.

#### SARA 302 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (DeMinimus) reporting levels established by SARA Title III, Section 302.

#### SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (DeMinimus) reporting levels established by SARA Title III, Section 312.

#### Extremely hazardous Substances; Section 355

None of the components in the mixture are listed.

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

#### Toxic substances control Act; TSCA

All of the components in this mixture are listed.

#### California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

#### EU Legislation

Regulation (EU) No 453/2010 of 20 May 2010 Annex II and Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures, and amending Regulation (EC) No 1907/2006 with amendments. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

#### Right to Know Components

None of the components in this mixture are listed.

#### 15.2. Chemical Safety Assessment

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No chemical safety assessment has been carried out by Bio SB.

### SECTION 16: OTHER INFORMATION

#### Abbreviations and Acronyms:

OSHA (USA)	Occupational Safety and Health Administration
NFPA	National Fire Protection Association
H.M.I.S (USA)	Hazardous Material Identification System
SARA	Superfund Amendments and Reauthorization Act
IMDG	International Maritime Organization
IATA	International Air Transportation Association
ADR/RID	European Agreements Concerning the International Carriage of Dangerous Goods by Rail ( <b>RID</b> ) and by Road ( <b>ADR</b> )
DOT (US)].	U.S Department of Transportation

General information:	Only trained personnel should use this material.
SDS No.: 0020	Revision A
Date:	05/22/2019

#### Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy him or herself as to the suitability of such information for their own particular use.

Bio SB shall not be held responsible for any damage resulting from the use of the above product or the information contained in this safety data sheet.

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