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**1. PRODUCT AND COMPANY IDENTIFICATION**

Product Name: Methylene Blue Stain  
Catalog Number: SM60  
Product Use: For laboratory use only

Manufacturer's Name: Dalynn Biologicals Inc.  
Supplier's Name: Dalynn Biologicals Inc.  
Address: 3253 – 34 Avenue NE  
Calgary, AB, Canada  
T1Y 6X2

Telephone: 1-888-404-4045  
Fax: (403) 250-9010  
Chemical Emergency: 1-613-996-6666  
Phone Number Only

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**2. HAZARD IDENTIFICATION****Emergency Overview****GHS Classification**

Not classified as a hazardous mixture

**GHS Label Elements, Including Precautionary Statements**

Pictogram No Symbol

Signal word None

Hazard statement(s)

None

Precautionary statement(s)

P233 Keep container tightly closed

P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

P264 Wash skin thoroughly after handling.

P305+P351+P338 If in eyes: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.

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**3. COMPOSITION & INFORMATION ON INGREDIENTS**

INGREDIENT	%	CAS-No.	EC-No.	Index-No.
Methylene Blue	3.0	61-73-4	200-515-2	-
Water	97.0	7732-18-5	231-791-2	-

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**4. FIRST AID MEASURES****General advice**

Consult a physician if feeling unwell. Show this safety data sheet to the doctor in attendance.  
Move affected individual out of affected area.

**If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. If feeling unwell, consult a physician.

**In case of skin contact**

Take off contaminated clothing. Wash affected area with soap and plenty of water. If feeling unwell, consult a physician.

**In case of eye contact**

Flush eyes with plenty of water for at least 15 minutes. If feeling unwell, consult a physician.

**If swallowed**

Do not induce vomiting. Rinse mouth with water if patient is conscious. If conscious, give a glass of water to dilute stomach contents. If feeling unwell, consult a physician.

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## 5. FIREFIGHTING MEASURES

**Conditions of flammability**

Low flammability as the main component is water.

**Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special protective equipment for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**Hazardous combustion products**

Hazardous decomposition products formed under fire conditions: carbon dioxide, carbon monoxide, hydrogen gas, sulfur oxides, hydrogen chloride gas

**Explosion data – sensitivity to mechanical impact**

Not sensitive to mechanical impact

**Explosion data – sensitivity to static discharge**

Not sensitive to static discharge

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## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions**

Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.  
Evacuate personnel to safe areas.

**Environmental precautions**

Do not let product enter drains.

**Methods and materials for containment and cleaning up**

Wearing appropriate safety gear including chemical resistant gloves and dust mask or respirator. Soak up with paper towel and place in sealed container and hold for disposal.

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## 7. HANDLING AND STORAGE

**Precautions for safe handling**

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Use in area with adequate ventilation.

#### Conditions for safe storage

Store tightly sealed at room temperature.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value	Control parameters	Basis
None				

### Personal protective equipment

#### Respiratory protection

Use in area with adequate ventilation. Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type ABEK (EN14387) respirator cartridges as a backup to engineering controls. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands after use.

#### Eye protection

Face shield and/or safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Skin and body protection

Wear appropriate clothing such as a lab coat that covers as much of the body as possible. Complete suit can also be worn if desired.

#### Hygiene measures

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	Liquid
Color	Blue

### Safety data

pH	5 to 7
Melting point/ freezing point	0°C (32°F)
Boiling point	100°C (212°F)
Flash point	No data available

Ignition temperature	No data available
Auto ignition temperature	No data available
Lower explosion limit	No data available
Upper explosion limit	No data available
Vapor pressure	No data available
Density	No data available
Water solubility	Soluble
Partition coefficient/ n-octanol/water	No data available
Relative vapor density	No data available
Odour	No data available
Odour threshold	No data available
Evaporation rate	No data available

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## 10. STABILITY AND REACTIVITY

### **Chemical stability**

Stable under recommended storage conditions.

### **Possibility of hazardous reactions**

Strong oxidizing agents

### **Chemical stability**

Stable if stored as recommended.

### **Materials to avoid**

No data available

### **Hazardous decomposition products**

Other decomposition products – No data available

Hazardous decomposition products formed under fire conditions – carbon dioxide, carbon monoxide, hydrogen gas, sulfur oxides, hydrogen chloride gas

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## 11. TOXICOLOGICAL INFORMATION

### **Acute toxicity**

#### **Oral LD50**

LD50 Oral – Rat – 1180 mg/kg (methylene blue)

#### **Inhalation LC50**

No data available

#### **Dermal LD50**

No data available

### **Other information on acute toxicity**

No data available

**Skin corrosion/irritation**

No data available

**Serious eye damage/eye irritation**

No data available

**Respiratory or skin sensitization**

No data available

**Germ cell mutagenicity**

No data available

**Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH.

**Reproductive toxicity**

No data available

**Teratogenicity**

No data available

**Specific target organ toxicity – single exposure (GHS)**

No data available

**Specific target organ toxicity – repeated exposure (GHS)**

No data available

**Aspiration hazard**

No data available

**Potential health effects**

**Inhalation** Maybe harmful if inhaled.

**Skin** May cause irritation.

**Eyes** May cause irritation on contact.

**Ingestion** Maybe harmful if swallowed. This product contains 97% water therefore no serious side effects are expected unless ingested in large quantities.

**Signs and Symptoms of Exposure**

No major effects are expected as this product contains 97% water.

**Synergistic effects**

No data available

**Additional information**

No data available

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## 12. ECOLOGICAL INFORMATION

### **Toxicity**

No data available

### **Persistence and degradability**

No data available

### **Bioaccumulative potential**

No data available

### **Mobility in soil**

No data available

### **PBT and vPvB assessment**

No data available

### **Other adverse effects**

No data available

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## 13. DISPOSAL CONSIDERATIONS

### **Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

### **Contaminated packaging**

Dispose of as unused product.

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## 14. TRANSPORT INFORMATION

### **DOT (US)**

Not dangerous good

### **IMDG**

Not dangerous good

### **IATA**

Not dangerous good

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## 15. REGULATORY INFORMATION

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by them.

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## 16. OTHER INFORMATION

### **Further information**

Copyright 2018 Dalynn Biologicals Inc. The above information is believed to be correct but does not

purport to be all inclusive and shall be only used as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Dalynn Biologicals Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.

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