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**1. PRODUCT AND COMPANY IDENTIFICATION**

Product Name: Auramine-Rhodamine Counterstain - 1% Malachite Green  
Catalog Number: SA94  
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**

Acute toxicity, Oral (Category 5)  
Serious eye damage (Category 1)  
Acute aquatic toxicity (Category 2)

**GHS Label Elements, Including Precautionary Statements**

Pictogram



Signal word            Danger

Hazard statement(s)

H303            May be harmful if swallowed.  
H313            May be harmful in contact with skin.  
H318            Causes serious eye damage.  
H401            Toxic to aquatic life.

Precautionary statement(s)

P264            Wash skin thoroughly after handling.  
P280            Wear protective gloves & clothing/ eye protection/ face protection.  
P302+P352    If on skin: Wash with plenty of water.  
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

Synonyms                      None

INGREDIENT	%	CAS-No.	EC-No.	Index-No.
Malachite green oxalate	1	2437-29-8	219-441-7	-
Water	99	7732-18-5	231-791-2	-

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### 4. FIRST AID MEASURES

#### General advice

Consult a physician. 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. 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 dioxides, nitrogen oxides

#### 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. Avoid breathing in dust.

### **Environmental precautions**

Prevent further leakage or spillage if safe to do so. 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 at room temperature away from direct light or sunlight.

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## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

### **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                      Green

### **Safety data**

pH	No data available
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	100% 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

No data available

### Chemical stability

Stable if stored as recommended.

### Materials to avoid

Strong oxidizing agents

### Hazardous decomposition products

Other decomposition products – No data available

Hazardous decomposition products formed under fire conditions – Carbon oxides, nitrogen oxides

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## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

#### Oral LD50

LD50 Oral - rat - 275 mg/kg

Remarks: Behavioral: Change in motor activity (specific assay). Gastrointestinal: Diarrhoea, other changes.

**Inhalation LC50**

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** May be harmful if inhaled. Causes respiratory tract irritation.

**Skin** May be harmful if absorbed through skin. Will stain skin green and may cause skin irritation

**Eyes** Causes eye irritation.

**Ingestion** Toxic if swallowed in large quantities, but given the diluted nature of this product

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**Signs and Symptoms of Exposure**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Synergistic effects**

No data available

**Additional information**

RTECS: Not 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)**

UN Number: 2810    Class: 6.1    Packing Group: III

Proper Shipping Name: Toxic, liquids, organic, NOS Malachite Green Solution

Reportable Quantity (RQ):

Marine Pollutant: No

Poison Inhalation Hazard: No

**IMDG**

UN Number: 2810    Class: 6.1    Packing Group: III    EMS-No: F-A, S-A

Proper Shipping Name: Toxic, liquids, organic, NOS Malachite Green Solution

Marine Pollutant: No

**IATA**

UN Number: 2810    Class: 6.1    Packing Group: III

Proper Shipping Name: Toxic, liquids, organic, NOS Malachite Green Solution

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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 2020 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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