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**1. PRODUCT AND COMPANY IDENTIFICATION**

Product Name: Iron-Haematoxylin Mordant (Weigert)  
Catalog Number: SI70  
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**

Skin irritation (Category 2)  
Eye irritation (Category 2A)

**GHS Label Elements, Including Precautionary Statements**

Pictogram



Signal word      Warning

Hazard statement(s)

H303      May be harmful if swallowed.  
H313      May be harmful in contact with skin.  
H320      Causes eye irritation.  
H335      May cause respiratory irritation.

Precautionary statement(s)

P233      Keep container tightly closed  
P261      Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.  
P264      Wash skin thoroughly after handling.  
P280      Wear protective gloves & clothing/ eye protection/ face protection.  
P310      Immediately call a poison center or doctor.  
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

INGREDIENT	%	CAS-No.	EC-No.	Index-No.
Iron (III) chloride hexahydrate	1.2	10025-77-1	231-729-4	-
Hydrochloric acid	1.0	7647-01-0	231-595-7	017-002-01-X
Water	97.8	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, 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. Avoid breathing in dust.

**Environmental precautions**

None.

**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.

**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.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Components with workplace control parameters**

Components	CAS-No.	Value	Control parameters	Basis
Iron trichloride	7647-01-0	TWA	1 mg/m3	Canada. Alberta. Occupational Health and Safety Code (table 2:OEL)
		Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required		
		TWA	1 mg/m3	Canada. British Columbia OEL
		STEL	2 mg/m3	Canada. British Columbia OEL
		TWAEV	1 mg/m3	Canada. Ontario OELs
		TWAEV	1 mg/m3	Canada. Quebec. Regulation respecting occupational health and safety, schedule 1, Part 1
		Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required		
		TWA	1 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
Hydrochloric acid	7647-01-0	(c)	2 ppm 3 mg/m3	Canada. Alberta. Occupational Health and Safety Code (table 2:OEL)
		Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required		
		C	2 ppm	Canada. British Columbia OEL
		C	5 ppm 7.5 mg/m3	Canada. Quebec. Regulation respecting occupational health and safety, schedule 1, Part 1
		A substance which may not be recirculated in accordance with section 108		
		C	2 ppm	USA. ACGIH Threshold Limit Values (TLV)

**Personal protective equipment****Respiratory protection**

No respiratory protection required. Use in area with adequate ventilation. Where risk assessment shows air-purifying respirators are appropriate follow the OSHA respirator regulations in 29 CFR

1910.134 or European Standard EN149. Use a NIOSH/MSHA or European Standard EN 149 Approved respirator if irritation or other symptoms are experienced.

#### **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**

If desired, face shield and/or safety glasses may be worn. Use equipment for eye protection tested and approved under appropriate government standards such as OSHA's regulations in 29 CFR 1910.133 or European Standard EN166.

#### **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**

Wash hands before breaks and immediately after handling the product.

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## **9. PHYSICAL AND CHEMICAL PROPERTIES**

### **Appearance**

Form	Liquid
Color	Light yellow

### **Safety data**

pH	~ 2.0 at 20°C (68°F)
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**

No data available

### **Chemical stability**

Stable if stored as recommended.

### **Materials to avoid**

Strong oxidizing agents, strong bases, strong acids, sodium and potassium metals

### **Hazardous decomposition products**

Other decomposition products – No data available

Hazardous decomposition products formed under fire conditions – Carbon oxides, hydrogen chloride gas

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## 11. TOXICOLOGICAL INFORMATION

### **Acute toxicity**

#### **Oral LD50**

No data available

#### **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.

**Skin**

May cause slight irritation on contact.

**Eyes**

May cause irritation on contact.

**Ingestion**

May be harmful if swallowed. Little or no side effects are expected if ingested in small quantities but larger doses may cause nausea, vomiting and diarrhea. Pink urine discoloration is a strong indicator of iron poisoning.

**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**

Unused product can be washed down the sink safely with running water or can be discarded with regular waste.

**Contaminated packaging**

Dispose of as unused product.

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**14. TRANSPORT INFORMATION****DOT (USA)**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

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**15. REGULATORY INFORMATION**

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

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**16. OTHER INFORMATION****Further information**

Copyright 2019 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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