

---

**1. PRODUCT AND COMPANY IDENTIFICATION**

Product Name: Listeria Supplement (Oxford Modified)  
Catalog Number: LL68  
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

---

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

Acute toxicity, Oral (Category 3), H301  
Respiratory sensitisation (Category 1), H334  
Skin sensitisation (Category 1), H317

**GHS Label Elements, Including Precautionary Statements**

Pictogram



Signal word                      Danger

Hazard statement(s)

H301                      Toxic if swallowed.  
H317                      May cause an allergic skin reaction.  
H334                      May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary statement(s)

P261                      Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P272                      Contaminated work clothing should not be allowed out of the workplace.  
P280                      Wear protective gloves.  
P284                      Wear respiratory protection.  
P302 + P352            IF ON SKIN: Wash with plenty of water.  
P304 + P340            IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P333 + P313            If skin irritation or rash occurs: Get medical advice/ attention.  
P342 + P311            If experiencing respiratory symptoms: Call a POISON CENTER/doctor.  
P362 + P364            Take off contaminated clothing and wash it before reuse.  
P501                      Dispose of contents/ container to an approved waste disposal plant.

---

### 3. COMPOSITION & INFORMATION ON INGREDIENTS

INGREDIENT	%	CAS-No.	EC-No.	Index-No.
Colistin sulfate	33.3	1264-72-8	215-034-3	-
Moxalactam sodium salt	66.7	64953-12-4	265-288-4	-

---

### 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.

#### In case of eye contact

Flush eyes with plenty of water for at least 15 minutes. Consult a physician.

#### If swallowed

Do not induce vomiting. Rinse mouth with water if patient is conscious. If feeling unwell, consult a physician.

---

### 5. FIREFIGHTING MEASURES

#### Conditions of flammability

Flammable in the presence of open flame. Vial contents contain only a small amount of chemical so little or no fire hazard exists.

#### 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 oxides (ie. carbon dioxides, carbon monoxide), nitrogen oxides, sulfur oxides

#### Explosion data – sensitivity to mechanical impact

No.

#### Explosion data – sensitivity to static discharge

No.

---

### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions

Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to

explosive concentrations.

#### **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. Sweep up powder carefully without creating dust. Place in a sealed container and hold for disposal.

---

## **7. HANDLING AND STORAGE**

#### **Precautions for safe handling**

Avoid contact with skin and eyes. Use in area with adequate ventilation.

#### **Conditions for safe storage**

Store contents as directed on the package. Refrigerate upon arrival.

---

## **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 N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. 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 EN166 (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.

---

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

#### **Appearance**

Form	Powder
Color	Off white

#### **Safety data**

pH	No data available
----	-------------------

Melting point/ freezing point	No data available
Boiling point	No data available
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

---

## 10. STABILITY AND REACTIVITY

### **Chemical stability**

Stable under recommended storage conditions.

### **Possibility of hazardous reactions**

No data available.

### **Materials to avoid**

Oxidizing agents.

### **Hazardous decomposition products**

Other decomposition products – No data available

Hazardous decomposition products formed under fire conditions – carbon oxides (ie. carbon dioxides, carbon monoxide), nitrogen oxides, sulfur oxides

---

## 11. TOXICOLOGICAL INFORMATION

### **Acute toxicity**

#### **Oral LD50**

LD50 Oral – Rat 121 mg/kg (colistin sulfate)

LD50 Oral – Rat >10,000 mg/kg (moxalactam sodium salt)

#### **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**

May cause allergic skin reactions.

**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**

Vancomycin has shown teratogenic effects in experimental animals.

**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 inflammation.

**Skin** May be harmful if absorbed through skin. Causes skin irritation and possible allergic reactions on sensitive individuals.

**Eyes** Causes eye irritation on contact. May cause burns depending on duration.

**Ingestion** May be harmful if swallowed. Contains colistin sulfate which can be toxic if ingested in sufficient quantity. Each vial contains 50-mg of colistin which is not a toxic amount to humans.

**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

---

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

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

---

**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.

---

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

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

---

**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 them.

---

## **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.

---