# **SAFETY DATA SHEET**



### Seahorse XF T Cell Metabolic Profiling Kit

### **Section 1. Identification**

**1.1 Product identifier** 

Product name : Seahorse XF T Cell Metabolic Profiling Kit

Part no. (chemical kit) : 103772-100

Part no. : 🔀 oligomycin A Not available.

XF Bam15 Not available. XF Rot/AA Not available.

Validation date : 6/10/2024

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

Identified uses : For research use only.

 XF oligomycin A
 6 x 13.548 mg

 XF Bam15
 6 x 115.705 mg

 XF Rot/AA
 6 x 11.588 mg

**Uses advised against**: Not for use in diagnostic procedures (RUO).

1.3 Details of the supplier of the safety data sheet

**Supplier/Manufacturer**: Agilent Technologies, Inc.

5301 Stevens Creek Blvd Santa Clara, CA 95051, USA

800-227-9770

1.4 Emergency telephone number

In case of emergency : CHEMTREC®: 1-800-424-9300

## Section 2. Hazards identification

2.1 Classification of the substance or mixture

OSHA/HCS status : KF oligomycin A While this material is not considered hazardous by the

OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees

and other users of this product.

XF Bam15 While this material is not considered hazardous by the

OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees

and other users of this product.

XF Rot/AA This material is considered hazardous by the OSHA

Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture

XF Rot/AA

H400 AQUATIC HAZARD (ACUTE) - Category 1 H410 AQUATIC HAZARD (LONG-TERM) - Category 1

2.2 GHS label elements

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### Section 2. Hazards identification

Hazard pictograms : ▼F Rot/AA



Signal word : KF oligomycin A No signal word.

XF Bam15 No signal word.

XF Rot/AA Warning

Hazard statements : KF oligomycin A No known significant effects or critical hazards.

XF Bam15 No known significant effects or critical hazards.
XF Rot/AA H410 - Very toxic to aquatic life with long lasting

effects.

**Precautionary statements** 

Prevention : XF oligomycin A Not applicable.

XF Bam15 Not applicable.

XF Rot/AA P273 - Avoid release to the environment.

Response : KF oligomycin A Not applicable.

XF Bam15 Not applicable.

XF Rot/AA P391 - Collect spillage.

Storage : KF oligomycin A Not applicable.

XF Bam15 Not applicable.
XF Rot/AA Not applicable.

XF Rot/AA P501 - Dispose of contents and container in

accordance with all local, regional, national and

international regulations.

Supplemental label : KF oligomycin A None known.

VF Bam15 None known.

XF Rot/AA None known.

2.3 Other hazards

### Section 3. Composition/information on ingredients

Ingredient name	%	CAS number
XF Rot/AA		
Antimycin A	≤0.3	1397-94-0
(2R,6aS,12aS)-1,2,6,6a,12,12a-hexahydro-2-isopropenyl-8,9-dimethoxychromeno[3,4-b]furo[2,3-h]chromen-6-one	≤0.1	83-79-4

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

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### Section 4. First aid measures

#### 4.1 Description of necessary first aid measures

Eye contact : XF oligomycin A

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids.

Check for and remove any contact lenses. Get

medical attention if irritation occurs.

XF Bam15 Immediately flush eyes with plenty of water,

occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get

medical attention if irritation occurs.

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get

medical attention if irritation occurs.

Inhalation : KF oligomycin A

XF Rot/AA

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical

attention if symptoms occur.

XF Bam15 Remove victim to fresh air and keep at rest in a

position comfortable for breathing. Get medical

attention if symptoms occur.

XF Rot/AA Remove victim to fresh air and keep at rest in a

position comfortable for breathing.

Skin contact : KF oligomycin A Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

XF Bam15 Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

XF Rot/AA Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

Ingestion : 🔀 oligomycin A Wash out mouth with water. If material has been

swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms

occur.

XF Bam15 Wash out mouth with water. If material has been

swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms

occur.

XF Rot/AA Wash out mouth with water. If material has been

swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical

personnel.

# 4.2 Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : XF oligomycin A No known significant effects or critical hazards.

XF Bam15 No known significant effects or critical hazards. XF Rot/AA No known significant effects or critical hazards.

Inhalation : KF oligomycin A No known significant effects or critical hazards.

XF Bam15 No known significant effects or critical hazards. XF Rot/AA No known significant effects or critical hazards.

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### Section 4. First aid measures

Skin contact : 🔀 oligomycin A No known significant effects or critical hazards.

XF Bam15 No known significant effects or critical hazards. XF Rot/AA No known significant effects or critical hazards.

Ingestion : KF oligomycin A No known significant effects or critical hazards.

XF Bam15 No known significant effects or critical hazards. XF Rot/AA No known significant effects or critical hazards.

Over-exposure signs/symptoms

Inhalation

Ingestion

Eye contact : KF oligomycin A No specific data.

XF Bam15 No specific data.
XF Rot/AA No specific data.

XF oligomycin A No specific data.

XF Bam15 No specific data.
XF Rot/AA No specific data.

Skin contact : 🔀 oligomycin A No specific data.

XF Bam15 No specific data.
XF Rot/AA No specific data.

: KF oligomycin A No specific data.

XF Bam15 No specific data. XF Rot/AA No specific data.

### 4.3 Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : 🔀 oligomycin A Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

XF Bam15 Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

XF Rot/AA Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

Specific treatments : KF oligomycin A No specific treatment.

XF Bam15 No specific treatment. XF Rot/AA No specific treatment.

Protection of first-aiders : 🗡 oligomycin A No action shall be taken involving any personal risk

or without suitable training.

XF Bam15 No action shall be taken involving any personal risk

or without suitable training.

XF Rot/AA No action shall be taken involving any personal risk

or without suitable training.

#### See toxicological information (Section 11)

### Section 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing : KF oligomycin A Use an extinguishing agent suitable for the

media surrounding fire.

XF Bam15 Use an extinguishing agent suitable for the

surrounding fire.

XF Rot/AA Use an extinguishing agent suitable for the

surrounding fire.

Unsuitable extinguishing

media

XF oligomycin ANone known.XF Bam15None known.

XF Rot/AA None known.

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### Section 5. Fire-fighting measures

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

Specific hazards arising from the chemical

: XF oligomycin A XF Bam15 XF Rot/AA

No specific fire or explosion hazard. No specific fire or explosion hazard.

This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this

material must be contained and prevented from being discharged to any waterway, sewer or drain.

**Hazardous thermal** decomposition products : XF oligomycin A

Decomposition products may include the following

materials:

halogenated compounds metal oxide/oxides

XF Bam15 Decomposition products may include the following

materials:

halogenated compounds

metal oxide/oxides

XF Rot/AA Decomposition products may include the following

materials:

halogenated compounds metal oxide/oxides

5.3 Advice for firefighters

**Special protective actions** 

for fire-fighters

: XF oligomycin A

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No

action shall be taken involving any personal risk or

without suitable training.

Promptly isolate the scene by removing all persons XF Bam15

from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

Promptly isolate the scene by removing all persons XF Rot/AA

> from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

Special protective

equipment for fire-fighters

: XF oligomycin A

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus

(SCBA) with a full face-piece operated in positive

pressure mode.

XF Bam15 Fire-fighters should wear appropriate protective

> equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

XF Rot/AA Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

### Section 6. Accidental release measures

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

XF Bam15

For non-emergency personnel

: XF oligomycin A

No action shall be taken involving any personal risk or without suitable training. Evacuate

surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. No action shall be taken involving any personal

risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not

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### Section 6. Accidental release measures

XF Rot/AA

For emergency responders : XF oligomycin A

XF Bam15

XF Rot/AA

**6.2 Environmental precautions** 

: XF oligomycin A

XF Bam15

XF Rot/AA

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : XF oligomycin A

XF Bam15

XF Rot/AA

touch or walk through spilled material. Put on appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers,

waterways, soil or air).

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers.

waterways, soil or air).

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in

large quantities. Collect spillage.

Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste

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Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste

disposal contractor.

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### Section 7. Handling and storage

### 7.1 Precautions for safe handling

**Protective measures** : XF oligomycin A

XF Bam15

XF Rot/AA

Advice on general occupational hygiene : XF oligomycin A

XF Bam15

XF Rot/AA

7.2 Conditions for safe storage, including any incompatibilities

: XF oligomycin A

XF Bam15

Put on appropriate personal protective equipment (see Section 8).

Put on appropriate personal protective equipment (see Section 8).

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Storage temperature: room temperature. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry. cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. Storage temperature: room temperature. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

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### Section 7. Handling and storage

XF Rot/AA

Storage temperature: room temperature. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### 7.3 Specific end use(s)

Recommendations : XF oligomycin A

XF Bam15

XF Rot/AA

Industrial sector specific

solutions

: XF oligomycin A XF Bam15

XF Rot/AA

Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications.

Not available. Not available. Not available.

# Section 8. Exposure controls/personal protection

### **8.1 Control parameters**

#### Occupational exposure limits

Ingredient name	Exposure limits
Antimycin A (2R,6aS,12aS)-1,2,6,6a,12,12a-hexahydro-2-isopropenyl-8,9-dimethoxychromeno[3,4-b]furo[2,3-h]chromen-6-one	None.  ACGIH TLV (United States, 1/2024).  TWA: 5 mg/m³ 8 hours.  OSHA PEL 1989 (United States, 3/1989).  TWA: 5 mg/m³ 8 hours.  NIOSH REL (United States, 10/2020).  TWA: 5 mg/m³ 10 hours.  OSHA PEL (United States, 5/2018).  TWA: 5 mg/m³ 8 hours.  CAL OSHA PEL (United States, 5/2018).  TWA: 5 mg/m³ 8 hours.

### **Biological exposure indices**

No exposure indices known.

### **8.2 Exposure controls**

Appropriate engineering controls

**Environmental exposure** controls

- : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### **Individual protection measures**

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### Section 8. Exposure controls/personal protection

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with sideshields.

#### **Skin protection**

**Hand protection** 

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Not available.

Not available.

**Respiratory protection** 

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

### Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

#### **Appearance**

pН

**Physical state** : XF oligomycin A Solid.

XF Bam15 Solid. XF Rot/AA Solid.

Color : XF oligomycin A Not available.

> XF Bam15 Not available. XF Rot/AA Not available.

Odor : XF oligomycin A Not available. XF Bam15 Not available.

XF Rot/AA Not available. : XF oligomycin A Not available.

**Odor threshold** XF Bam15 Not available.

> XF Rot/AA Not available. : XF oligomycin A Not available. XF Bam15 Not available.

XF Rot/AA Not available. **Melting point/freezing point** : XF oligomycin A Not available.

> XF Bam15 Not available. XF Rot/AA Not available. : XF oligomycin A Not available.

**Boiling point, initial boiling** point, and boiling range XF Bam15 XF Rot/AA

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# Section 9. Physical and chemical properties and safety characteristics

: XF oligomycin A Not applicable. Flash point XF Bam15 Not applicable. XF Rot/AA Not applicable. XF oligomycin A Not available. **Evaporation rate** XF Bam15 Not available. XF Rot/AA Not available. **Flammability** : XF oligomycin A Not available. XF Bam15 Not available. XF Rot/AA Not available. Lower and upper explosion : XF oligomycin A Not applicable. XF Bam15 Not applicable. limit/flammability limit XF Rot/AA Not applicable. Vapor pressure : Not available. Relative vapor density : XF oligomycin A Not applicable.

XF Bam15 Not applicable.

XF Rot/AA Not applicable.

Relative density : XF oligomycin A Not available.

XF Bam15 Not available.
XF Rot/AA Not available.

Solubility(ies) : Not available.

Partition coefficient: noctanol/water

: KF oligomycin A
Not applicable.
Not applicable.

XF Bam15 Not applicable.

XF Rot/AA Not applicable.

XF oligomycin A Not applicable.

XF Bam15 Not applicable.

XF Rot/AA Not applicable.

Not applicable.

Decomposition temperature : KF oligomycin A Not available.

XF Bam15 Not applicable.
XF Rot/AA Not applicable.

Particle characteristics

**Viscosity** 

**Auto-ignition temperature** 

Median particle size : XF oligomycin A Not available.

XF Bam15 Not available.
XF Rot/AA Not available.

### Section 10. Stability and reactivity

10.1 Reactivity : 🔀 oligomycin A No specific test data related to reactivity available

for this product or its ingredients.

XF Bam15 No specific test data related to reactivity available

for this product or its ingredients.

XF Rot/AA No specific test data related to reactivity available

for this product or its ingredients.

**10.2 Chemical stability** : **X**F oligomycin A The product is stable.

XF Bam15 The product is stable. XF Rot/AA The product is stable.

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### Section 10. Stability and reactivity

10.3 Possibility of : X

hazardous reactions

: KF oligomycin A Under normal conditions of storage and use,

hazardous reactions will not occur.

XF Bam15 Under normal conditions of storage and use,

hazardous reactions will not occur.

XF Rot/AA Under normal conditions of storage and use,

hazardous reactions will not occur.

10.4 Conditions to avoid : KF oligomycin A No specific data.

XF Bam15 No specific data. XF Rot/AA No specific data.

10.5 Incompatible materials : KF oligomycin A May react or be incompatible with oxidizing

materials.

XF Bam15 May react or be incompatible with oxidizing

materials.

XF Rot/AA May react or be incompatible with oxidizing

materials.

10.6 Hazardous

decomposition products

: **X**F oligomycin A Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

XF Bam15 Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

XF Rot/AA Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

# **Section 11. Toxicological information**

### 11.1 Information on toxicological effects

### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Antimycin A (2R,6aS,12aS)-1,2,6,6a, 12,12a-hexahydro- 2-isopropenyl- 8,9-dimethoxychromeno [3,4-b]furo[2,3-h]chromen- 6-one	LD50 Oral LD50 Oral		28 mg/kg 25 mg/kg	-

### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
<b>XF</b> Rot/AA (2R,6aS,12aS)-1,2,6,6a, 12,12a-hexahydro-2-isopropenyl-8,9-dimethoxychromeno [3,4-b]furo[2,3-h]chromen-6-one	Eyes - Mild irritant	Rabbit	-	1 %	-

#### **Sensitization**

Not available.

### **Mutagenicity**

**Conclusion/Summary**: Not available.

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# **Section 11. Toxicological information**

Carcinogenicity

**Conclusion/Summary**: Not available.

**Reproductive toxicity** 

**Conclusion/Summary**: Not available.

**Teratogenicity** 

Conclusion/Summary: Not available.

Specific target organ toxicity (single exposure)

Name	3.5	Route of exposure	Target organs
XF Rot/AA (2R,6aS,12aS)-1,2,6,6a,12,12a-hexahydro-2-isopropenyl-8,9-dimethoxychromeno[3,4-b]furo[2,3-h]chromen-6-one	Category 3		Respiratory tract irritation
	Category 3		Narcotic effects

### Specific target organ toxicity (repeated exposure)

Not available.

### **Aspiration hazard**

Not available.

Skin contact

Information on the likely : XF oligomycin A routes of exposure XF Bam15

XF oligomycin A Not available.
XF Bam15 Not available.
XF Rot/AA Not available.

Potential acute health effects

Eye contact : KF oligomycin A No known significant effects or critical hazards.

XF Bam15 No known significant effects or critical hazards.
XF Rot/AA No known significant effects or critical hazards.

Inhalation : Foligomycin A No known significant effects or critical hazards.

XF Bam15 No known significant effects or critical hazards.
XF Rot/AA No known significant effects or critical hazards.

Skin contact : 🔀 oligomycin A No known significant effects or critical hazards.

XF Bam15 No known significant effects or critical hazards.
XF Rot/AA No known significant effects or critical hazards.

Ingestion : XF oligomycin A No known significant effects or critical hazards.

XF Bam15 No known significant effects or critical hazards.

XF Bam15 No known significant effects or critical hazards. XF Rot/AA No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : F oligomycin A No specific data.

XF Bam15 No specific data.
XF Rot/AA No specific data.

★F oligomycin A No specific data.

Inhalation : ★F oligomycin A No specific data.

XF Bam15 No specific data.

XF Rot/AA
No specific data.
No specific data.
No specific data.
No specific data.

XF Rot/AA No specific data.

Ingestion 

XF Rot/AA No specific data.

No specific data.

XF Bam15 No specific data.

XF Rot/AA No specific data.

No specific data.

# <u>Delayed and immediate effects and also chronic effects from short and long term exposure</u> Short term exposure

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# **Section 11. Toxicological information**

Potential immediate

effects

: Not available.

Potential delayed effects

: Not available.

Long term exposure

**Potential immediate** 

: Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

General : XF oligomycin A

XF Bam15 No known significant effects or critical hazards. XF Rot/AA No known significant effects or critical hazards.

No known significant effects or critical hazards.

Carcinogenicity: KF oligomycin A No known significant effects or critical hazards.

XF Bam15 No known significant effects or critical hazards. XF Rot/AA No known significant effects or critical hazards.

Mutagenicity: KF oligomycin A No known significant effects or critical hazards.

XF Bam15 No known significant effects or critical hazards. XF Rot/AA No known significant effects or critical hazards.

XF Bam15 No known significant effects or critical hazards. XF Rot/AA No known significant effects or critical hazards.

#### **Numerical measures of toxicity**

### **Acute toxicity estimates**

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
XF oligomycin A					
XF oligomycin A	98475.3	N/A	N/A	N/A	N/A
XF Bam15					
XF Bam15	99002.1	N/A	N/A	N/A	N/A
XF Rot/AA					
XF Rot/AA	99154.9	N/A	N/A	N/A	N/A
Antimycin A	28	N/A	N/A	N/A	N/A
(2R,6aS,12aS)-1,2,6,6a,12,12a-hexahydro- 2-isopropenyl-8,9-dimethoxychromeno[3,4-b]furo [2,3-h]chromen-6-one	25	N/A	N/A	N/A	N/A

# Section 12. Ecological information

#### **12.1 Toxicity**

Product/ingredient name	Result	Species	Exposure
Antimycin A (2R,6aS,12aS)-1,2,6,6a, 12,12a-hexahydro- 2-isopropenyl- 8,9-dimethoxychromeno [3,4-b]furo[2,3-h]chromen- 6-one	Acute LC50 0.000019 mg/l Fresh water Acute EC50 190 μg/l Fresh water	Fish - Oncorhynchus mykiss Crustaceans - Simocephalus serrulatus - Larvae	96 hours 48 hours

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Seahorse XF T Cell Metabolic Profiling Kit						
Section 12. Eco	ological information					
	Acute EC50 3.7 µg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours			
	Acute LC50 1.9 ppb Fresh water	Fish - Oncorhynchus mykiss	96 hours			
	Chronic NOEC 0.3 nph Fresh water	Danhnia - Danhnia magna	21 days			

#### 12.2 Persistence and degradability

Not available.

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
<b>XF Rot/AA</b> (2R,6aS,12aS)-1,2,6,6a, 12,12a-hexahydro- 2-isopropenyl- 8,9-dimethoxychromeno [3,4-b]furo[2,3-h]chromen- 6-one	4.1	25.7	Low

### **12.4 Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

Chronic NOEC 1.01 ppb

12.5 Other adverse effects :

: No known significant effects or critical hazards.

### Section 13. Disposal considerations

### 13.1 Waste treatment methods

**Disposal methods** 

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

32 days

Fish - Oncorhynchus mykiss

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

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# **Section 14. Transport information**

DOT / TDG / Mexico / IMDG / : Not regulated.

IATA

**Additional information** 

Remarks: De minimis quantities

Special precautions for user : Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in the

event of an accident or spillage.

Transport in bulk according : Not available.

to IMO instruments

### **Section 15. Regulatory information**

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

: TSCA 8(a) CDR Exempt/Partial exemption: Not determined **U.S. Federal regulations** 

Clean Water Act (CWA) 311: Nitric acid, iron(3+) salt, nonahydrate

Clean Air Act Section 112

(b) Hazardous Air **Pollutants (HAPs)**  : Not listed

**Clean Air Act Section 602** 

Class I Substances

: Not listed

Clean Air Act Section 602

Class II Substances

: Not listed

**DEA List I Chemicals** 

: Not listed

(Precursor Chemicals)

**DEA List II Chemicals** 

: Not listed

(Essential Chemicals)

**SARA 302/304** 

#### Composition/information on ingredients

			SARA 302 TPQ		SARA 304 RQ	
Name	%	EHS	(lbs)	(gallons)	(lbs)	(gallons)
XF Rot/AA Antimycin A	≤0.3	Yes.	1000 / 10000	-	1000	-

**SARA 304 RQ** : 2880317.9 lbs / 1307664.3 kg

**SARA 311/312** 

Classification XF oligomycin A Not applicable. XF Bam15 Not applicable. XF Rot/AA Not applicable.

### Composition/information on ingredients

No products were found.

#### **State regulations**

**Massachusetts** : None of the components are listed. **New York** : None of the components are listed. : None of the components are listed. **New Jersey Pennsylvania** : None of the components are listed.

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### Section 15. Regulatory information

### California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

#### **International regulations**

### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### **Montreal Protocol**

Not listed.

### Stockholm Convention on Persistent Organic Pollutants

Not listed.

### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

#### **Inventory list**

Australia : Not determined.
Canada : Not determined.
China : Not determined.

Japan : Japan inventory (CSCL): Not determined.

Japan inventory (ISHL): Not determined.

**New Zealand** Not determined. **Philippines** Not determined. Republic of Korea Not determined. **Taiwan** Not determined. **Thailand** Not determined. **Turkey** Not determined. **United States** : Not determined. : Not determined. **Viet Nam** 

### Section 16. Other information

#### Procedure used to derive the classification

Classification	Justification
XF Rot/AA	
AQUATIC HAZARD (ACUTE) - Category 1	Calculation method
AQUATIC HAZARD (LONG-TERM) - Category 1	Calculation method

#### **History**

Date of issue/Date of

: 06/10/2024

revision

Date of previous issue : 06/29/2021

Version : 2

Key to abbreviations : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

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### Section 16. Other information

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available

UN = United Nations

▼ Indicates information that has changed from previously issued version.

### **Notice to reader**

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