

Seahorse XFp T Cell Metabolic Profiling Kit

Section 1. Identification

1.1 Product identifier

Product name	Seahorse XFp T Cell Metabolic Profiling Kit		
Part no. (chemical kit)	103771-100		
Part no.	XFp oligomycin A		Not available.
	XFp Bam15		Not available.
	XFp 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.	
	XFp oligomycin A	6 x 3.544 mg
	XFp Bam15	6 x 14.463 mg
	XFp Rot/AA	6 x 3.493 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	Chemical Name	OSHA Hazard Communication Standard (29 CFR 1910.1200) Status
	XFp 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.
	XFp 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.
	XFp Rot/AA	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture

Xp Rot/AA	
H400	AQUATIC HAZARD (ACUTE) - Category 1
H410	AQUATIC HAZARD (LONG-TERM) - Category 1

2.2 GHS label elements

Section 2. Hazards identification

Hazard pictograms	: XFp Rot/AA	
Signal word	: <input checked="" type="checkbox"/> XFp oligomycin A XFp Bam15 XFp Rot/AA	No signal word. No signal word. Warning
Hazard statements	: <input checked="" type="checkbox"/> XFp oligomycin A XFp Bam15 XFp Rot/AA	No known significant effects or critical hazards. No known significant effects or critical hazards. H410 - Very toxic to aquatic life with long lasting effects.
<u>Precautionary statements</u>		
Prevention	: <input checked="" type="checkbox"/> XFp oligomycin A XFp Bam15 XFp Rot/AA	Not applicable. Not applicable. P273 - Avoid release to the environment.
Response	: <input checked="" type="checkbox"/> XFp oligomycin A XFp Bam15 XFp Rot/AA	Not applicable. Not applicable. P391 - Collect spillage.
Storage	: <input checked="" type="checkbox"/> XFp oligomycin A XFp Bam15 XFp Rot/AA	Not applicable. Not applicable. Not applicable.
Disposal	: <input checked="" type="checkbox"/> XFp oligomycin A XFp Bam15 XFp Rot/AA	Not applicable. Not applicable. P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	: <input checked="" type="checkbox"/> XFp oligomycin A XFp Bam15 XFp Rot/AA	None known. None known. None known.
<u>2.3 Other hazards</u>		
Hazards not otherwise classified	: <input checked="" type="checkbox"/> XFp oligomycin A XFp Bam15 XFp Rot/AA	None known. None known. None known.

Section 3. Composition/information on ingredients

Substance/mixture	: <input checked="" type="checkbox"/> XFp oligomycin A XFp Bam15 XFp Rot/AA	Mixture Mixture Mixture
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Ingredient name	%	CAS number
<input checked="" type="checkbox"/> XFp Rot/AA		
Antimycin A	≤0.1	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.

Section 4. First aid measures

4.1 Description of necessary first aid measures

Eye contact : ☒ Fp oligomycin A

XFp Bam15

XFp Rot/AA

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.
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 : ☒ Fp oligomycin A

XFp Bam15

XFp Rot/AA

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

Skin contact : ☒ Fp oligomycin A

XFp Bam15

XFp Rot/AA

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Ingestion : ☒ Fp oligomycin A

XFp Bam15

XFp 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. Get medical attention if symptoms occur.
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.
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 : ☒ Fp oligomycin A
XFp Bam15
XFp Rot/AA

No known significant effects or critical hazards.
No known significant effects or critical hazards.
No known significant effects or critical hazards.

Inhalation : ☒ Fp oligomycin A
XFp Bam15
XFp Rot/AA

No known significant effects or critical hazards.
No known significant effects or critical hazards.
No known significant effects or critical hazards.

Section 4. First aid measures

Skin contact	: <input checked="" type="checkbox"/> Fp oligomycin A XFp Bam15 XFp Rot/AA	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Ingestion	: <input checked="" type="checkbox"/> Fp oligomycin A XFp Bam15 XFp Rot/AA	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	: <input checked="" type="checkbox"/> Fp oligomycin A XFp Bam15 XFp Rot/AA	No specific data. No specific data. No specific data.
Inhalation	: <input checked="" type="checkbox"/> Fp oligomycin A XFp Bam15 XFp Rot/AA	No specific data. No specific data. No specific data.
Skin contact	: <input checked="" type="checkbox"/> Fp oligomycin A XFp Bam15 XFp Rot/AA	No specific data. No specific data. No specific data.
Ingestion	: <input checked="" type="checkbox"/> Fp oligomycin A XFp Bam15 XFp Rot/AA	No specific data. No specific data. No specific data.

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

Notes to physician	: <input checked="" type="checkbox"/> Fp oligomycin A XFp Bam15 XFp Rot/AA	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: <input checked="" type="checkbox"/> Fp oligomycin A XFp Bam15 XFp Rot/AA	No specific treatment. No specific treatment. No specific treatment.
Protection of first-aiders	: <input checked="" type="checkbox"/> Fp oligomycin A XFp Bam15 XFp Rot/AA	No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. 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 media	: <input checked="" type="checkbox"/> Fp oligomycin A XFp Bam15 XFp Rot/AA	Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: <input checked="" type="checkbox"/> Fp oligomycin A XFp Bam15 XFp Rot/AA	None known. None known. None known.

Section 5. Fire-fighting measures

5.2 Special hazards arising from the substance or mixture

Specific hazards arising from the chemical : ☒ Fp oligomycin A
XFp Bam15
XFp 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 : ☒ Fp oligomycin A

Decomposition products may include the following materials:

halogenated compounds
metal oxide/oxides

XFp Bam15

Decomposition products may include the following materials:

halogenated compounds
metal oxide/oxides

XFp 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 : ☒ Fp 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.

XFp Bam15

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.

XFp Rot/AA

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.

Special protective equipment for fire-fighters : ☒ Fp 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.

XFp Bam15

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

XFp 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

For non-emergency personnel : ☒ Fp 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.

XFp Bam15

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

Section 6. Accidental release measures

XFp 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.

For emergency responders : ☒ Fp oligomycin A

XFp Bam15

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".

XFp Rot/AA

6.2 Environmental precautions

: ☒ Fp oligomycin A

XFp Bam15

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).

XFp Rot/AA

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.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : ☒ Fp oligomycin A

XFp Bam15

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 disposal contractor.

XFp Rot/AA

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.

Section 7. Handling and storage

7.1 Precautions for safe handling

Protective measures

: ☒ XFp oligomycin A

XFp Bam15

XFp Rot/AA

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.

Advice on general occupational hygiene

: ☒ XFp oligomycin A

XFp Bam15

XFp Rot/AA

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.

7.2 Conditions for safe storage, including any incompatibilities

: ☒ XFp oligomycin A

XFp Bam15

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.

Section 7. Handling and storage

XFp 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 : ☒ XFp oligomycin A
 XFp Bam15
 XFp Rot/AA

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

Industrial sector specific solutions : ☒ XFp oligomycin A
 XFp Bam15
 XFp Rot/AA

Not available.
 Not available.
 Not available.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
<input checked="" type="checkbox"/> XFp Rot/AA 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/m ³ 8 hours. OSHA PEL 1989 (United States, 3/1989). TWA: 5 mg/m ³ 8 hours. NIOSH REL (United States, 10/2020). TWA: 5 mg/m ³ 10 hours. OSHA PEL (United States, 5/2018). TWA: 5 mg/m ³ 8 hours. CAL OSHA PEL (United States, 5/2018). TWA: 5 mg/m ³ 8 hours.

Biological exposure indices

No exposure indices known.

8.2 Exposure controls

Appropriate engineering controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls

: 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

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 side-shields.
- 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.
- 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

- | | | | |
|--|---|--|--|
| Physical state | : | <input checked="" type="checkbox"/> Fp oligomycin A
XFp Bam15
XFp Rot/AA | Solid.
Solid.
Solid. |
| Color | : | <input checked="" type="checkbox"/> Fp oligomycin A
XFp Bam15
XFp Rot/AA | Not available.
Not available.
Not available. |
| Odor | : | <input checked="" type="checkbox"/> Fp oligomycin A
XFp Bam15
XFp Rot/AA | Not available.
Not available.
Not available. |
| Odor threshold | : | <input checked="" type="checkbox"/> Fp oligomycin A
XFp Bam15
XFp Rot/AA | Not available.
Not available.
Not available. |
| pH | : | <input checked="" type="checkbox"/> Fp oligomycin A
XFp Bam15
XFp Rot/AA | Not available.
Not available.
Not available. |
| Melting point/freezing point | : | <input checked="" type="checkbox"/> Fp oligomycin A
XFp Bam15
XFp Rot/AA | Not available.
Not available.
Not available. |
| Boiling point, initial boiling point, and boiling range | : | <input checked="" type="checkbox"/> Fp oligomycin A
XFp Bam15
XFp Rot/AA | Not available.
Not available.
Not available. |

Section 9. Physical and chemical properties and safety characteristics

Flash point	: <input checked="" type="checkbox"/> Fp oligomycin A XFp Bam15 XFp Rot/AA	Not applicable. Not applicable. Not applicable.
Evaporation rate	: <input checked="" type="checkbox"/> Fp oligomycin A XFp Bam15 XFp Rot/AA	Not available. Not available. Not available.
Flammability	: <input checked="" type="checkbox"/> Fp oligomycin A XFp Bam15 XFp Rot/AA	Not available. Not available. Not available.
Lower and upper explosion limit/flammability limit	: <input checked="" type="checkbox"/> Fp oligomycin A XFp Bam15 XFp Rot/AA	Not applicable. Not applicable. Not applicable.
Vapor pressure	: <input checked="" type="checkbox"/> Not available.	
Relative vapor density	: <input checked="" type="checkbox"/> Fp oligomycin A XFp Bam15 XFp Rot/AA	Not applicable. Not applicable. Not applicable.
Relative density	: <input checked="" type="checkbox"/> Fp oligomycin A XFp Bam15 XFp Rot/AA	Not available. Not available. Not available.
Solubility(ies)	: Not available.	
Partition coefficient: n-octanol/water	: <input checked="" type="checkbox"/> Fp oligomycin A XFp Bam15 XFp Rot/AA	Not applicable. Not applicable. Not applicable.
Auto-ignition temperature	: <input checked="" type="checkbox"/> Fp oligomycin A XFp Bam15 XFp Rot/AA	Not applicable. Not applicable. Not applicable.
Decomposition temperature	: <input checked="" type="checkbox"/> Fp oligomycin A XFp Bam15 XFp Rot/AA	Not available. Not available. Not available.
Viscosity	: <input checked="" type="checkbox"/> Fp oligomycin A XFp Bam15 XFp Rot/AA	Not applicable. Not applicable. Not applicable.
<u>Particle characteristics</u>		
Median particle size	: <input checked="" type="checkbox"/> Fp oligomycin A XFp Bam15 XFp Rot/AA	Not available. Not available. Not available.

Section 10. Stability and reactivity

10.1 Reactivity	: <input checked="" type="checkbox"/> Fp oligomycin A XFp Bam15 XFp Rot/AA	No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: <input checked="" type="checkbox"/> Fp oligomycin A XFp Bam15 XFp Rot/AA	The product is stable. The product is stable. The product is stable.

Section 10. Stability and reactivity

10.3 Possibility of hazardous reactions	: <input checked="" type="checkbox"/> Fp oligomycin A	Under normal conditions of storage and use, hazardous reactions will not occur.
	XFp Bam15	Under normal conditions of storage and use, hazardous reactions will not occur.
	XFp Rot/AA	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: <input checked="" type="checkbox"/> Fp oligomycin A	No specific data.
	XFp Bam15	No specific data.
	XFp Rot/AA	No specific data.
10.5 Incompatible materials	: <input checked="" type="checkbox"/> Fp oligomycin A	May react or be incompatible with oxidizing materials.
	XFp Bam15	May react or be incompatible with oxidizing materials.
	XFp Rot/AA	May react or be incompatible with oxidizing materials.
10.6 Hazardous decomposition products	: <input checked="" type="checkbox"/> Fp oligomycin A	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	XFp Bam15	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	XFp 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
<input checked="" type="checkbox"/> Fp Rot/AA 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	Rat Rat	28 mg/kg 25 mg/kg	- -

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
<input checked="" type="checkbox"/> Fp 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.

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	Category	Route of exposure	Target organs
XFp 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 Category 3	-	Respiratory tract irritation Narcotic effects

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure : ☒ XFp oligomycin A Not available.
☒ XFp Bam15 Not available.
☒ XFp Rot/AA Not available.

Potential acute health effects

Eye contact : ☒ XFp oligomycin A No known significant effects or critical hazards.
☒ XFp Bam15 No known significant effects or critical hazards.
☒ XFp Rot/AA No known significant effects or critical hazards.

Inhalation : ☒ XFp oligomycin A No known significant effects or critical hazards.
☒ XFp Bam15 No known significant effects or critical hazards.
☒ XFp Rot/AA No known significant effects or critical hazards.

Skin contact : ☒ XFp oligomycin A No known significant effects or critical hazards.
☒ XFp Bam15 No known significant effects or critical hazards.
☒ XFp Rot/AA No known significant effects or critical hazards.

Ingestion : ☒ XFp oligomycin A No known significant effects or critical hazards.
☒ XFp Bam15 No known significant effects or critical hazards.
☒ XFp Rot/AA No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : ☒ XFp oligomycin A No specific data.
☒ XFp Bam15 No specific data.
☒ XFp Rot/AA No specific data.

Inhalation : ☒ XFp oligomycin A No specific data.
☒ XFp Bam15 No specific data.
☒ XFp Rot/AA No specific data.

Skin contact : ☒ XFp oligomycin A No specific data.
☒ XFp Bam15 No specific data.
☒ XFp Rot/AA No specific data.

Ingestion : ☒ XFp oligomycin A No specific data.
☒ XFp Bam15 No specific data.
☒ XFp Rot/AA No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Section 11. Toxicological information

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

General	: <input checked="" type="checkbox"/> Fp oligomycin A XFp Bam15 XFp Rot/AA	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Carcinogenicity	: <input checked="" type="checkbox"/> Fp oligomycin A XFp Bam15 XFp Rot/AA	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	: <input checked="" type="checkbox"/> Fp oligomycin A XFp Bam15 XFp Rot/AA	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Reproductive toxicity	: <input checked="" type="checkbox"/> Fp oligomycin A XFp Bam15 XFp Rot/AA	No known significant effects or critical hazards. No known significant effects or critical hazards. 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/l)
<input checked="" type="checkbox"/> Fp oligomycin A XFp oligomycin A	101101.6	N/A	N/A	N/A	N/A
XFp Bam15 XFp Bam15	99003.0	N/A	N/A	N/A	N/A
XFp Rot/AA XFp Rot/AA 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	99020.6 28 25	N/A N/A N/A	N/A N/A N/A	N/A N/A N/A	N/A N/A N/A

Section 12. Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
<input checked="" type="checkbox"/> Fp Rot/AA 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 - <i>Oncorhynchus mykiss</i> Crustaceans - <i>Simocephalus serrulatus</i> - Larvae	96 hours 48 hours


Section 12. Ecological information

	Acute EC50 3.7 µg/l Fresh water Acute LC50 1.9 ppb Fresh water Chronic NOEC 0.3 ppb Fresh water Chronic NOEC 1.01 ppb	Daphnia - <i>Daphnia magna</i> Fish - <i>Oncorhynchus mykiss</i> Daphnia - <i>Daphnia magna</i> Fish - <i>Oncorhynchus mykiss</i>	48 hours 96 hours 21 days 32 days
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12.2 Persistence and degradability

Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
 XFp 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	4.1	25.7	Low

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

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.

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.

Section 14. Transport information

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

[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 to IMO instruments : Not available.

Section 15. Regulatory information

[15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture](#)

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

DEA List II Chemicals (Essential Chemicals) : Not listed

[SARA 302/304](#)

[Composition/information on ingredients](#)

Name	%	EHS	SARA 302 TPQ		SARA 304 RQ	
			(lbs)	(gallons)	(lbs)	(gallons)
XFp Rot/AA Antimycin A	≤0.1	Yes.	1000 / 10000	-	1000	-

SARA 304 RQ : 6946099 lbs / 3153528.9 kg

[SARA 311/312](#)

Classification : ☒ Fp oligomycin A
 XFp Bam15
 XFp Rot/AA

Not applicable.
 Not applicable.
 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.

New Jersey : None of the components are listed.

Pennsylvania : None of the components are listed.

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.
Viet Nam	: Not determined.

Section 16. Other information

Procedure used to derive the classification

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

History

Date of issue/Date of revision	: 06/10/2024
Date of previous issue	: 06/29/2021
Version	: 2
Key to abbreviations	: <ul style="list-style-type: none"> 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

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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