



**SECTION 2: Hazards identification****2.2 Label elements**

**Hazard pictograms** : XFp Rot/AA



**Signal word** : XFp oligomycin A  
XFp Bam15  
XFp Rot/AA

No signal word.  
No signal word.  
Warning

**Hazard statements** : 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.

**Precautionary statements**

**Prevention** : XFp oligomycin A  
XFp Bam15  
XFp Rot/AA

Not applicable.  
Not applicable.  
P273 - Avoid release to the environment.

**Response** : XFp oligomycin A  
XFp Bam15  
XFp Rot/AA

Not applicable.  
Not applicable.  
P391 - Collect spillage.

**Storage** : XFp oligomycin A  
XFp Bam15  
XFp Rot/AA

Not applicable.  
Not applicable.  
Not applicable.

**Disposal** : 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** : XFp oligomycin A  
XFp Bam15  
XFp Rot/AA

Not applicable.  
Not applicable.  
Not applicable.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : XFp oligomycin A  
XFp Bam15  
XFp Rot/AA

Not applicable.  
Not applicable.  
Not applicable.

**Special packaging requirements**

**Tactile warning of danger** : XFp oligomycin A  
XFp Bam15  
XFp Rot/AA

Not applicable.  
Not applicable.  
Not applicable.

**2.3 Other hazards**

**Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII** : XFp oligomycin A  
XFp Bam15  
XFp Rot/AA

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.  
This mixture does not contain any substances that are assessed to be a PBT or a vPvB.  
This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**Other hazards which do not result in classification** : XFp oligomycin A  
XFp Bam15  
XFp Rot/AA

None known.  
None known.  
None known.

**Seahorse XFp T Cell Metabolic Profiling Kit**

**SECTION 3: Composition/information on ingredients**

**3.1 Substances** : XFp oligomycin A Mixture  
 XFp Bam15 Mixture  
 XFp Rot/AA Mixture

| Product/ingredient name  | Identifiers  | %    | Classification  | Specific Conc. Limits, M-factors and ATEs                         | Type    |
|--|--|------|---|---|---------|
| <b>XFp Rot/AA</b><br>Antimycin A   | CAS: 1397-94-0                                       | <0.1 | Acute Tox. 2, H300<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410  | ATE [Oral] = 28 mg/kg<br>M [Acute] = 10000<br>M [Chronic] = 10000 | [1]     |
| (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 | EC: 201-501-9<br>CAS: 83-79-4<br>Index: 650-005-00-2 | <0.1 | Acute Tox. 3, H301<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>STOT SE 3, H335<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410<br><b>See Section 16 for the full text of the H statements declared above.</b> | ATE [Oral] = 100 mg/kg<br>M [Acute] = 100<br>M [Chronic] = 100    | [1] [2] |

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

Type  
 XFp Rot/AA [1] Substance classified with a health or environmental hazard  
 [2] Substance with a workplace exposure limit

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

**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

**Eye contact** : XFp 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.  
 XFp 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.  
 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.

**Inhalation** : XFp oligomycin A Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.  
 XFp Bam15 Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.  
 XFp Rot/AA Remove victim to fresh air and keep at rest in a position comfortable for breathing.

**Skin contact** : XFp oligomycin A Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.  
 XFp Bam15 Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.  
 XFp Rot/AA Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

## SECTION 4: First aid measures

|                                   |                    |  |
|-----------------------------------|--------------------|--|
| <b>Ingestion</b>                  | : XFp 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. |
|                                   | XFp 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. |
|                                   | 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.  |
| <b>Protection of first-aiders</b> | : XFp oligomycin A | No action shall be taken involving any personal risk or without suitable training.   |
|                                   | XFp Bam15          | No action shall be taken involving any personal risk or without suitable training.   |
|                                   | XFp Rot/AA         | No action shall be taken involving any personal risk or without suitable training.   |

### 4.2 Most important symptoms and effects, both acute and delayed

#### Potential acute health effects

|                     |   |   |
|---------------------|---|---|
| <b>Eye contact</b>  | : XFp oligomycin A<br>XFp Bam15<br>XFp Rot/AA | No known significant effects or critical hazards.<br>No known significant effects or critical hazards.<br>No known significant effects or critical hazards. |
| <b>Inhalation</b>   | : XFp oligomycin A<br>XFp Bam15<br>XFp Rot/AA | No known significant effects or critical hazards.<br>No known significant effects or critical hazards.<br>No known significant effects or critical hazards. |
| <b>Skin contact</b> | : XFp oligomycin A<br>XFp Bam15<br>XFp Rot/AA | No known significant effects or critical hazards.<br>No known significant effects or critical hazards.<br>No known significant effects or critical hazards. |
| <b>Ingestion</b>    | : XFp oligomycin A<br>XFp Bam15<br>XFp Rot/AA | No known significant effects or critical hazards.<br>No known significant effects or critical hazards.<br>No known significant effects or critical hazards. |

#### Over-exposure signs/symptoms

|                     |   |   |
|---------------------|---|---|
| <b>Eye contact</b>  | : XFp oligomycin A<br>XFp Bam15<br>XFp Rot/AA | No specific data.<br>No specific data.<br>No specific data. |
| <b>Inhalation</b>   | : XFp oligomycin A<br>XFp Bam15<br>XFp Rot/AA | No specific data.<br>No specific data.<br>No specific data. |
| <b>Skin contact</b> | : XFp oligomycin A<br>XFp Bam15<br>XFp Rot/AA | No specific data.<br>No specific data.<br>No specific data. |
| <b>Ingestion</b>    | : XFp oligomycin A<br>XFp Bam15<br>XFp Rot/AA | No specific data.<br>No specific data.<br>No specific data. |

### 4.3 Indication of any immediate medical attention and special treatment needed

|                            |                    |   |
|----------------------------|--------------------|---|
| <b>Notes to physician</b>  | : XFp oligomycin A | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
|                            | XFp Bam15          | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
|                            | XFp Rot/AA         | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| <b>Specific treatments</b> | : XFp oligomycin A | No specific treatment.  |
|                            | XFp Bam15          | No specific treatment.  |
|                            | XFp Rot/AA         | No specific treatment.  |

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

|                                       |                    |   |
|---------------------------------------|--------------------|---|
| <b>Suitable extinguishing media</b>   | : XFp oligomycin A | Use an extinguishing agent suitable for the surrounding fire. |
|                                       | XFp Bam15          | Use an extinguishing agent suitable for the surrounding fire. |
|                                       | XFp Rot/AA         | Use an extinguishing agent suitable for the surrounding fire. |
| <b>Unsuitable extinguishing media</b> | : XFp oligomycin A | None known.   |
|                                       | XFp Bam15          | None known.   |
|                                       | XFp Rot/AA         | None known.   |

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

|  |                    |  |
|--|--------------------|--|
| <b>Hazards from the substance or mixture</b> | : XFp oligomycin A | No specific fire or explosion hazard.  |
|  | XFp Bam15          | No specific fire or explosion hazard.  |
|  | XFp Rot/AA         | 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. |
| <b>Hazardous combustion products</b>         | : XFp oligomycin A | Decomposition products may include the following materials:<br>halogenated compounds<br>metal oxide/oxides   |
|  | XFp Bam15          | Decomposition products may include the following materials:<br>halogenated compounds<br>metal oxide/oxides   |
|  | XFp Rot/AA         | Decomposition products may include the following materials:<br>halogenated compounds<br>metal oxide/oxides   |

### 5.3 Advice for firefighters

|   |                    |   |
|---|--------------------|---|
| <b>Special precautions for fire-fighters</b>          | : XFp 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.   |
| <b>Special protective equipment for fire-fighters</b> | : XFp 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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. |
|   | 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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. |
|   | 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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. |

## SECTION 6: Accidental release measures

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

|                                    |                    |   |
|------------------------------------|--------------------|---|
| <b>For non-emergency personnel</b> | : XFp 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 spilt 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 touch or walk through spilt material. Put on appropriate personal protective equipment. |
|                                    | XFp Rot/AA         | 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 spilt material. Put on appropriate personal protective equipment. |
| <b>For emergency responders</b>    | : XFp oligomycin A | If specialised 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 Bam15          | If specialised 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         | If specialised 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".   |

### 6.2 Environmental precautions

|                    |  |
|--------------------|--|
| : XFp oligomycin A | Avoid dispersal of spilt 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 Bam15          | Avoid dispersal of spilt 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 spilt 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 material for containment and cleaning up

|                                |                    |  |
|--------------------------------|--------------------|--|
| <b>Methods for cleaning up</b> | : XFp oligomycin A | Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor. |
|                                | XFp Bam15          | Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled 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, labelled waste container. Dispose of via a licensed waste disposal contractor. |

### 6.4 Reference to other sections

|   |
|---|
| : See Section 1 for emergency contact information.<br>See Section 8 for information on appropriate personal protective equipment.<br>See Section 13 for additional waste treatment information. |
|---|

**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

|   |                    |  |
|---|--------------------|--|
| <b>Protective measures</b>                    | : XFp oligomycin A | Put on appropriate personal protective equipment (see Section 8).  |
|   | XFp Bam15          | Put on appropriate personal protective equipment (see Section 8).  |
|   | XFp Rot/AA         | 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. |
| <b>Advice on general occupational hygiene</b> | : XFp oligomycin A | 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.                                      |
|   | XFp Bam15          | 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.                                      |
|   | 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.                                      |

**7.2 Conditions for safe storage, including any incompatibilities**

|                |                    |  |
|----------------|--------------------|--|
| <b>Storage</b> | : XFp oligomycin A | 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. |
|                | 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. |
|                | 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 unlabelled containers. Use   |

## SECTION 7: Handling and storage

appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### Seveso Directive - Reporting thresholds

#### Danger criteria

| Category         | Notification and MAPP threshold | Safety report threshold |
|------------------|---------------------------------|-------------------------|
| XFp Rot/AA<br>E1 | 100 tonne                       | 200 tonne               |

### 7.3 Specific end use(s)

|   |   |   |
|---|---|---|
| <b>Recommendations</b>                      | : XFp oligomycin A<br>XFp Bam15<br>XFp Rot/AA | Industrial applications, Professional applications.<br>Industrial applications, Professional applications.<br>Industrial applications, Professional applications. |
| <b>Industrial sector specific solutions</b> | : XFp oligomycin A<br>XFp Bam15<br>XFp Rot/AA | Not available.<br>Not available.<br>Not available.  |

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

| Product/ingredient name  | Exposure limit values  |
|--|--|
| XFp Rot/AA<br>(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 | <b>NAOSH (Ireland, 5/2021). Notes: Advisory Occupational Exposure Limit Values (OELVs)</b><br>OELV: 5 mg/m <sup>3</sup> 8 hours. |

#### Biological exposure indices

No exposure indices known.

|  |   |
|--|---|
| <b>Recommended monitoring procedures</b> | : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required. |
|--|---|

#### DNELs/DMELs

No DNELs/DMELs available.

#### PNECs

No PNECs available

### 8.2 Exposure controls

|   |  |
|---|--|
| <b>Appropriate engineering controls</b> | : Good general ventilation should be sufficient to control worker exposure to airborne contaminants. |
|---|--|

#### Individual protection measures

|                         |   |
|-------------------------|---|
| <b>Hygiene measures</b> | : 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. |
|-------------------------|---|

**SECTION 8: Exposure controls/personal protection**

- 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.
- 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.

**SECTION 9: Physical and chemical properties**

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

**9.1 Information on basic physical and chemical properties****Appearance**

|   |   |   |
|---|---|---|
| <b>Physical state</b>                               | : XFp oligomycin A<br>XFp Bam15<br>XFp Rot/AA | Solid.<br>Solid.<br>Solid.                            |
| <b>Colour</b>                                       | : XFp oligomycin A<br>XFp Bam15<br>XFp Rot/AA | Not available.<br>Not available.<br>Not available.    |
| <b>Odour</b>  | : XFp oligomycin A<br>XFp Bam15<br>XFp Rot/AA | Not available.<br>Not available.<br>Not available.    |
| <b>Odour threshold</b>                              | : XFp oligomycin A<br>XFp Bam15<br>XFp Rot/AA | Not available.<br>Not available.<br>Not available.    |
| <b>Melting point/freezing point</b>                 | : XFp oligomycin A<br>XFp Bam15<br>XFp Rot/AA | Not available.<br>Not available.<br>Not available.    |
| <b>Initial boiling point and boiling range</b>      | : XFp oligomycin A<br>XFp Bam15<br>XFp Rot/AA | Not available.<br>Not available.<br>Not available.    |
| <b>Flammability</b>                                 | : XFp oligomycin A<br>XFp Bam15<br>XFp Rot/AA | Not available.<br>Not available.<br>Not available.    |
| <b>Upper/lower flammability or explosive limits</b> | : XFp oligomycin A<br>XFp Bam15<br>XFp Rot/AA | Not applicable.<br>Not applicable.<br>Not applicable. |

## Seahorse XFp T Cell Metabolic Profiling Kit

**SECTION 9: Physical and chemical properties**

|   |   |   |
|---|---|---|
| <b>Flash point</b>                            | : XFp oligomycin A<br>XFp Bam15<br>XFp Rot/AA | Not applicable.<br>Not applicable.<br>Not applicable. |
| <b>Auto-ignition temperature</b>              | : XFp oligomycin A<br>XFp Bam15<br>XFp Rot/AA | Not applicable.<br>Not applicable.<br>Not applicable. |
| <b>Decomposition temperature</b>              | : XFp oligomycin A<br>XFp Bam15<br>XFp Rot/AA | Not available.<br>Not available.<br>Not available.    |
| <b>pH</b>                                     | : XFp oligomycin A<br>XFp Bam15<br>XFp Rot/AA | Not available.<br>Not available.<br>Not available.    |
| <b>Viscosity</b>                              | : XFp oligomycin A<br>XFp Bam15<br>XFp Rot/AA | Not applicable.<br>Not applicable.<br>Not applicable. |
| <b>Solubility(ies)</b>                        | : Not available.                              |   |
| <b>Partition coefficient: n-octanol/water</b> | : XFp oligomycin A<br>XFp Bam15<br>XFp Rot/AA | Not applicable.<br>Not applicable.<br>Not applicable. |
| <b>Vapour pressure</b>                        | : Not available.                              |   |
| <b>Evaporation rate</b>                       | : XFp oligomycin A<br>XFp Bam15<br>XFp Rot/AA | Not available.<br>Not available.<br>Not available.    |
| <b>Relative density</b>                       | : XFp oligomycin A<br>XFp Bam15<br>XFp Rot/AA | Not available.<br>Not available.<br>Not available.    |
| <b>Vapour density</b>                         | : XFp oligomycin A<br>XFp Bam15<br>XFp Rot/AA | Not applicable.<br>Not applicable.<br>Not applicable. |
| <b>Explosive properties</b>                   | : XFp oligomycin A<br>XFp Bam15<br>XFp Rot/AA | Not available.<br>Not available.<br>Not available.    |
| <b>Oxidising properties</b>                   | : XFp oligomycin A<br>XFp Bam15<br>XFp Rot/AA | Not available.<br>Not available.<br>Not available.    |
| <b><u>Particle characteristics</u></b>        |   |   |
| <b>Median particle size</b>                   | : XFp oligomycin A<br>XFp Bam15<br>XFp Rot/AA | Not available.<br>Not available.<br>Not available.    |

**9.2 Other information**

No additional information.

**SECTION 10: Stability and reactivity**

|                                |   |  |
|--------------------------------|---|--|
| <b>10.1 Reactivity</b>         | : XFp oligomycin A<br><br>XFp Bam15<br><br>XFp Rot/AA | No specific test data related to reactivity available for this product or its ingredients.<br>No specific test data related to reactivity available for this product or its ingredients.<br>No specific test data related to reactivity available for this product or its ingredients. |
| <b>10.2 Chemical stability</b> | : XFp oligomycin A<br>XFp Bam15<br>XFp Rot/AA         | The product is stable.<br>The product is stable.<br>The product is stable.   |

**Seahorse XFp T Cell Metabolic Profiling Kit**

**SECTION 10: Stability and reactivity**

|  |                    |  |
|--|--------------------|--|
| <b>10.3 Possibility of hazardous reactions</b> | : XFp 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.                      |
| <b>10.4 Conditions to avoid</b>                | : XFp oligomycin A | No specific data.  |
|  | XFp Bam15          | No specific data.  |
|  | XFp Rot/AA         | No specific data.  |
| <b>10.5 Incompatible materials</b>             | : XFp oligomycin A | May react or be incompatible with oxidising materials.   |
|  | XFp Bam15          | May react or be incompatible with oxidising materials.   |
|  | XFp Rot/AA         | May react or be incompatible with oxidising materials.   |
| <b>10.6 Hazardous decomposition products</b>   | : XFp 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 |
|--|-----------|---------|----------|----------|
| <b>XFp Rot/AA</b><br>Antimycin A<br>(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 | Rat     | 28 mg/kg | -        |
|  | LD50 Oral | Rat     | 25 mg/kg | -        |

Acute toxicity estimates

| Product/ingredient name  | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapours) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|--|--------------|----------------|--------------------------|-----------------------------|-------------------------------------|
| <b>XFp Rot/AA</b><br>Antimycin A<br>(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 | 28<br>100    | N/A<br>N/A     | N/A<br>N/A               | N/A<br>N/A                  | N/A<br>N/A                          |

Irritation/Corrosion

| Product/ingredient name   | Result               | Species | Score | Exposure | Observation |
|---|----------------------|---------|-------|----------|-------------|
| <b>XFp Rot/AA</b><br>(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 %      | -           |

Sensitiser

**Conclusion/Summary** : Not available.

Mutagenicity

**SECTION 11: Toxicological information**

**Conclusion/Summary** : Not available.

**Carcinogenicity**

**Conclusion/Summary** : Not available.

**Reproductive toxicity**

**Conclusion/Summary** : Not available.

**Teratogenicity**

**Conclusion/Summary** : Not available.

**Specific target organ toxicity (single exposure)**

| Product/ingredient name   | Category   | Route of exposure | Target organs                |
|---|------------|-------------------|------------------------------|
| <b>XFp Rot/AA</b><br>(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 |

**Specific target organ toxicity (repeated exposure)**

Not available.

**Aspiration hazard**

Not available.

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

**Potential acute health effects**

**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.

**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.

**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.

**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.

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

**Inhalation** : 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.

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

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

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Short term exposure**

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

**Long term exposure**

Seahorse XFp T Cell Metabolic Profiling Kit

**SECTION 11: Toxicological information**

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

**Potential chronic health effects**

**Conclusion/Summary** : Not available.

|                              |   |   |
|------------------------------|---|---|
| <b>General</b>               | : XFp oligomycin A<br>XFp Bam15<br>XFp Rot/AA | No known significant effects or critical hazards.<br>No known significant effects or critical hazards.<br>No known significant effects or critical hazards. |
| <b>Carcinogenicity</b>       | : XFp oligomycin A<br>XFp Bam15<br>XFp Rot/AA | No known significant effects or critical hazards.<br>No known significant effects or critical hazards.<br>No known significant effects or critical hazards. |
| <b>Mutagenicity</b>          | : XFp oligomycin A<br>XFp Bam15<br>XFp Rot/AA | No known significant effects or critical hazards.<br>No known significant effects or critical hazards.<br>No known significant effects or critical hazards. |
| <b>Reproductive toxicity</b> | : XFp oligomycin A<br>XFp Bam15<br>XFp Rot/AA | No known significant effects or critical hazards.<br>No known significant effects or critical hazards.<br>No known significant effects or critical hazards. |

**11.2 Information on other hazards**

**11.2.1 Endocrine disrupting properties**

Not available.

**11.2.2 Other information**

Not available.

**SECTION 12: Ecological information**

**12.1 Toxicity**

| Product/ingredient name  | Result   | Species  | Exposure                                   |
|--|--|--|--|
| <b>XFp Rot/AA</b><br>Antimycin A<br>(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<br>Acute EC50 190 µg/l Fresh water  | Fish - <i>Oncorhynchus mykiss</i><br>Crustaceans - <i>Simocephalus serrulatus</i> - Larvae   | 96 hours<br>48 hours                       |
|  | Acute EC50 3.7 µg/l Fresh water<br>Acute LC50 1.9 ppb Fresh water<br>Chronic NOEC 0.3 ppb Fresh water<br>Chronic NOEC 1.01 ppb | Daphnia - <i>Daphnia magna</i><br>Fish - <i>Oncorhynchus mykiss</i><br>Daphnia - <i>Daphnia magna</i><br>Fish - <i>Oncorhynchus mykiss</i> | 48 hours<br>96 hours<br>21 days<br>32 days |

**12.2 Persistence and degradability**

Not available.

**12.3 Bioaccumulative potential**

| Product/ingredient name   | LogP <sub>ow</sub> | BCF  | Potential |
|---|--------------------|------|-----------|
| <b>XFp Rot/AA</b><br>(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       |

## SECTION 12: Ecological information

### 12.4 Mobility in soil

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

Mobility : Not available.

### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

### 12.6 Endocrine disrupting properties

Not available.

### 12.7 Other adverse effects

No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

**Methods of disposal** : The generation of waste should be avoided or minimised 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.

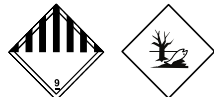
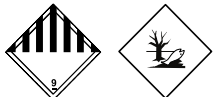
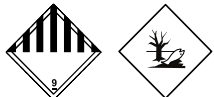
**Hazardous waste** : The classification of the product may meet the criteria for a hazardous waste.

#### Packaging

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special precautions** : 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.

## SECTION 14: Transport information

|                                 | ADR/RID  | IMDG   | IATA   |
|---------------------------------|--|--|--|
| 14.1 UN number or ID number     | UN3077   | UN3077   | UN3077   |
| 14.2 UN proper shipping name    | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Antimycin A)                         | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Antimycin A)                         | Environmentally hazardous substance, solid, n.o.s. (Antimycin A)                           |
| 14.3 Transport hazard class(es) | 9<br> | 9<br> | 9<br> |
| 14.4 Packing group              | III  | III  | III  |
| 14.5 Environmental hazards      | Yes.   | Yes.   | Yes.   |

### Additional information

Remarks: De minimis quantities

## SECTION 14: Transport information

- ADR/RID** : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.  
**Hazard identification number** 90  
**Limited quantity** 5 kg  
**Special provisions** 274, 335, 601, 375  
**Tunnel code** (-)
- IMDG** : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.  
**Emergency schedules** F-A, S-F  
**Special provisions** 274, 335, 966, 967, 969
- IATA** : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.  
**Quantity limitation** Passenger and Cargo Aircraft: 400 kg. Packaging instructions: 956. Cargo Aircraft Only: 400 kg. Packaging instructions: 956. Limited Quantities - Passenger Aircraft: 30 kg. Packaging instructions: Y956.  
**Special provisions** A97, A158, A179, A197, A215
- 14.6 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.

**14.7 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

#### EU Regulation (EC) No. 1907/2006 (REACH)

##### Annex XIV - List of substances subject to authorisation

###### Annex XIV

None of the components are listed.

###### Substances of very high concern

None of the components are listed.

##### Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

No listed substance

|              |                    |                 |
|--------------|--------------------|-----------------|
| <b>Label</b> | : XFp oligomycin A | Not applicable. |
|              | : XFp Bam15        | Not applicable. |
|              | : XFp Rot/AA       | Not applicable. |

#### Other EU regulations

##### Ozone depleting substances (1005/2009/EU)

Not listed.

##### Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

##### Persistent Organic Pollutants

Not listed.

##### Seveso Directive

This product is controlled under the Seveso Directive.

##### Danger criteria

## SECTION 15: Regulatory information

### Category

XFp Rot/AA  
E1

### 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

|                                |  |
|--------------------------------|--|
| <b>Australia</b>               | : Not determined.  |
| <b>Canada</b>                  | : Not determined.  |
| <b>China</b>                   | : Not determined.  |
| <b>Eurasian Economic Union</b> | : <b>Russian Federation inventory</b> : Not determined.  |
| <b>Japan</b>                   | : <b>Japan inventory (CSCL)</b> : Not determined.<br><b>Japan inventory (ISHL)</b> : Not determined. |
| <b>New Zealand</b>             | : Not determined.  |
| <b>Philippines</b>             | : Not determined.  |
| <b>Republic of Korea</b>       | : Not determined.  |
| <b>Taiwan</b>                  | : Not determined.  |
| <b>Thailand</b>                | : Not determined.  |
| <b>Turkey</b>                  | : Not determined.  |
| <b>United States</b>           | : Not determined.  |
| <b>Viet Nam</b>                | : Not determined.  |

**15.2 Chemical safety assessment** : This product contains substances for which Chemical Safety Assessments might still be required.

## SECTION 16: Other information

🔍 Indicates information that has changed from previously issued version.

**Abbreviations and acronyms** :

- ATE = Acute Toxicity Estimate
- CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
- DMEL = Derived Minimal Effect Level
- DNEL = Derived No Effect Level
- EUH statement = CLP-specific Hazard statement
- N/A = Not available
- PBT = Persistent, Bioaccumulative and Toxic
- PNEC = Predicted No Effect Concentration
- RRN = REACH Registration Number
- vPvB = Very Persistent and Very Bioaccumulative

**Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]**

**Seahorse XFp T Cell Metabolic Profiling Kit**

**SECTION 16: Other information**

| Classification  | Justification                            |
|---|--|
| <b>XFp Rot/AA</b><br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 | Calculation method<br>Calculation method |

[Full text of abbreviated H statements](#)

|   |  |
|---|--|
| <b>XFp Rot/AA</b><br>H300<br>H301<br>H315<br>H319<br>H335<br>H400<br>H410 | Fatal if swallowed.<br>Toxic if swallowed.<br>Causes skin irritation.<br>Causes serious eye irritation.<br>May cause respiratory irritation.<br>Very toxic to aquatic life.<br>Very toxic to aquatic life with long lasting effects. |
|---|--|

[Full text of classifications \[CLP/GHS\]](#)

|   |  |
|---|--|
| <b>XFp Rot/AA</b><br>Acute Tox. 2<br>Acute Tox. 3<br>Aquatic Acute 1<br>Aquatic Chronic 1<br>Eye Irrit. 2<br>Skin Irrit. 2<br>STOT SE 3 | ACUTE TOXICITY - Category 2<br>ACUTE TOXICITY - Category 3<br>SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1<br>LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1<br>SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2<br>SKIN CORROSION/IRRITATION - Category 2<br>SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3 |
|---|--|

**Date of issue/ Date of revision** : 10/06/2024

**Date of previous issue** : No previous validation

**Version** : 1

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