

SAFETY DATA SHEET



Seahorse XF T Cell Metabolic Profiling Kit

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name : Seahorse XF T Cell Metabolic Profiling Kit
Part no. (chemical kit) : 103772-100
Part no. : XF oligomycin A Not available.
 XF Bam15 Not available.
 XF Rot/AA Not available.

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

Agilent Technologies LDA UK Ltd.
 5500 Lakeside Cheadle Royal Business Park,
 Cheadle, Cheshire, SK8 3GR
 United Kingdom
 Tel: +44 (0) 345 712 5292
e-mail address of person responsible for this SDS : pdl-msds_author@agilent.com

1.4 Emergency telephone number

Emergency telephone number (with hours of operation) : CHEMTREC®: +(44)-870-8200418

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : XF oligomycin A Mixture
 XF Bam15 Mixture
 XF Rot/AA Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

XF Rot/AA
 H400 SHORT-TERM (ACUTE) AQUATIC HAZARD Category 1
 H410 LONG-TERM (CHRONIC) AQUATIC HAZARD Category 1

XF oligomycin A The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.
 XF Bam15 The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.
 XF Rot/AA The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

Ingredients of unknown toxicity : XF oligomycin A Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10%
 XF Bam15 Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10%
 XF Rot/AA Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10%

See Section 16 for the full text of the H statements declared above.

SECTION 2: Hazards identification

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms : Rot/AA



Signal word : oligomycin A
XF Bam15
XF Rot/AA

No signal word.
No signal word.
Warning

Hazard statements : oligomycin A
XF Bam15
XF 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 : oligomycin A
XF Bam15
XF Rot/AA

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

Response : oligomycin A
XF Bam15
XF Rot/AA

Not applicable.
Not applicable.
P391 - Collect spillage.

Storage : oligomycin A
XF Bam15
XF Rot/AA

Not applicable.
Not applicable.
Not applicable.

Disposal : oligomycin A
XF Bam15
XF 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 : oligomycin A
XF Bam15
XF 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 : oligomycin A
XF Bam15
XF Rot/AA

Not applicable.
Not applicable.
Not applicable.

Special packaging requirements

Containers to be fitted with child-resistant fastenings : oligomycin A
XF Bam15
XF Rot/AA

Not applicable.
Not applicable.
Not applicable.

Tactile warning of danger : oligomycin A
XF Bam15
XF 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 : oligomycin A
XF Bam15
XF 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 : oligomycin A
XF Bam15
XF Rot/AA

None known.
None known.
None known.

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SECTION 3: Composition/information on ingredients

3.1 Substances : oligomycin A Mixture
 XF Bam15 Mixture
 XF Rot/AA Mixture

Product/ingredient name	Identifiers	%	Classification	Type
<input checked="" type="checkbox"/> Rot/AA Antimycin A	CAS: 1397-94-0	≤0.3	Acute Tox. 2, H300 Aquatic Acute 1, H400 (M=10000) Aquatic Chronic 1, H410 (M=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 CAS: 83-79-4 Index: 650-005-00-2	<0.1	Acute Tox. 3, H301 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100) See Section 16 for the full text of the H statements declared above.	[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
 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 : 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.
 XF 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 : oligomycin A 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 : 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.

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SECTION 4: First aid measures

Ingestion	: <input checked="" type="checkbox"/> 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.
Protection of first-aiders	: <input checked="" type="checkbox"/> 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.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

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

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	: <input checked="" type="checkbox"/> oligomycin A XF Bam15 XF 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"/> oligomycin A XF Bam15 XF Rot/AA	No specific treatment. No specific treatment. No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	: <input checked="" type="checkbox"/> oligomycin A XF Bam15 XF 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"/> oligomycin A XF Bam15 XF Rot/AA	None known. None known. None known.

5.2 Special hazards arising from the substance or mixture

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SECTION 5: Firefighting measures

Hazards from the substance or mixture	: <input checked="" type="checkbox"/> 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 combustion products	: <input checked="" type="checkbox"/> XF oligomycin A XF Bam15 XF Rot/AA	Decomposition products may include the following materials: halogenated compounds metal oxide/oxides Decomposition products may include the following materials: halogenated compounds metal oxide/oxides Decomposition products may include the following materials: halogenated compounds metal oxide/oxides
5.3 Advice for firefighters		
Special protective actions for fire-fighters	: <input checked="" type="checkbox"/> XF oligomycin A XF Bam15 XF 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. 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 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	: <input checked="" type="checkbox"/> XF oligomycin A XF Bam15 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. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. 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	: <input checked="" type="checkbox"/> XF oligomycin A XF Bam15 XF 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. 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. 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.
For emergency responders	: <input checked="" type="checkbox"/> XF oligomycin A XF 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". 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".

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SECTION 6: Accidental release measures

XF 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

: XF 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).

XF 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).

XF 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

Methods for cleaning up : XF 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.

XF 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.

XF 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.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures : XF oligomycin A Put on appropriate personal protective equipment (see Section 8).

XF Bam15 Put on appropriate personal protective equipment (see Section 8).

XF 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.

Advice on general occupational hygiene

: XF 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.

XF 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.

XF Rot/AA Eating, drinking and smoking should be prohibited in areas

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SECTION 7: Handling and storage

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

Storage	: <input checked="" type="checkbox"/> XF 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.
	XF 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.
	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 unlabelled containers. Use 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
<input checked="" type="checkbox"/> XF Rot/AA E1	100 tonne	200 tonne

7.3 Specific end use(s)

Recommendations	: <input checked="" type="checkbox"/> XF oligomycin A XF Bam15 XF Rot/AA	Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications.
Industrial sector specific solutions	: <input checked="" type="checkbox"/> XF oligomycin A XF Bam15 XF Rot/AA	Not available. Not available. Not available.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
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	EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 5 mg/m ³ 8 hours. STEL: 10 mg/m ³ 15 minutes.

Biological exposure indices

No exposure indices known.

Recommended monitoring procedures : Reference should be made to appropriate monitoring standards. 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

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

Individual protection measures

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.

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**

Physical state	:	<input checked="" type="checkbox"/> F oligomycin A XF Bam15 XF Rot/AA	Solid. Solid. Solid.
Colour	:	<input checked="" type="checkbox"/> F oligomycin A XF Bam15 XF Rot/AA	Not available. Not available. Not available.
Odour	:	<input checked="" type="checkbox"/> F oligomycin A XF Bam15 XF Rot/AA	Not available. Not available. Not available.
Odour threshold	:	<input checked="" type="checkbox"/> F oligomycin A XF Bam15 XF Rot/AA	Not available. Not available. Not available.
Melting point/freezing point	:	<input checked="" type="checkbox"/> F oligomycin A XF Bam15 XF Rot/AA	Not available. Not available. Not available.
Initial boiling point and boiling range	:	<input checked="" type="checkbox"/> F oligomycin A XF Bam15 XF Rot/AA	Not available. Not available. Not available.
Flammability	:	<input checked="" type="checkbox"/> F oligomycin A XF Bam15 XF Rot/AA	Not available. Not available. Not available.
Upper/lower flammability or explosive limits	:	<input checked="" type="checkbox"/> F oligomycin A XF Bam15 XF Rot/AA	Not applicable. Not applicable. Not applicable.
Flash point	:	<input checked="" type="checkbox"/> F oligomycin A XF Bam15 XF Rot/AA	Not applicable. Not applicable. Not applicable.
Auto-ignition temperature	:	<input checked="" type="checkbox"/> F oligomycin A XF Bam15 XF Rot/AA	Not applicable. Not applicable. Not applicable.
Decomposition temperature	:	<input checked="" type="checkbox"/> F oligomycin A XF Bam15 XF Rot/AA	Not available. Not available. Not available.
pH	:	<input checked="" type="checkbox"/> F oligomycin A XF Bam15 XF Rot/AA	Not available. Not available. Not available.
Viscosity	:	<input checked="" type="checkbox"/> F oligomycin A XF Bam15 XF Rot/AA	Not applicable. Not applicable. Not applicable.
Solubility(ies)	:	Not available.	
Partition coefficient: n-octanol/water	:	<input checked="" type="checkbox"/> F oligomycin A XF Bam15 XF Rot/AA	Not applicable. Not applicable. Not applicable.
Vapour pressure	:	Not available.	
Evaporation rate	:	<input checked="" type="checkbox"/> F oligomycin A XF Bam15 XF Rot/AA	Not available. Not available. Not available.
Relative density	:	<input checked="" type="checkbox"/> F oligomycin A XF Bam15 XF Rot/AA	Not available. Not available. Not available.
Vapour density	:	<input checked="" type="checkbox"/> F oligomycin A XF Bam15 XF Rot/AA	Not applicable. Not applicable. Not applicable.

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SECTION 9: Physical and chemical properties

Explosive properties : F oligomycin A Not available.
 XF Bam15 Not available.
 XF Rot/AA Not available.

Oxidising properties : F oligomycin A Not available.
 XF Bam15 Not available.
 XF Rot/AA Not available.

Particle characteristics

Median particle size : F oligomycin A Not available.
 XF Bam15 Not available.
 XF Rot/AA Not available.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity : F 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 : F oligomycin A The product is stable.
 XF Bam15 The product is stable.
 XF Rot/AA The product is stable.

10.3 Possibility of hazardous reactions : F 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 : F oligomycin A No specific data.
 XF Bam15 No specific data.
 XF Rot/AA No specific data.

10.5 Incompatible materials : F oligomycin A May react or be incompatible with oxidising materials.
 XF Bam15 May react or be incompatible with oxidising materials.
 XF Rot/AA May react or be incompatible with oxidising materials.

10.6 Hazardous decomposition products : 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

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SECTION 11: Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
XF 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	- -

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)
XF Rot/AA XF 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	26883.0 28 100	N/A N/A N/A	N/A N/A N/A	N/A N/A N/A	N/A N/A N/A

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
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	Eyes - Mild irritant	Rabbit	-	1 %	-

Sensitiser

Conclusion/Summary : Not available.

Mutagenicity

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
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

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure

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

SECTION 11: Toxicological informationPotential acute health effects

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

Symptoms related to the physical, chemical and toxicological characteristics

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

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

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

Conclusion/Summary	: Not available.	
General	: <input checked="" type="checkbox"/> oligomycin A XF Bam15 XF 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"/> oligomycin A XF Bam15 XF 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"/> oligomycin A XF Bam15 XF 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"/> oligomycin A XF Bam15 XF Rot/AA	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
<input checked="" type="checkbox"/> XF 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	Fish - Rainbow trout,donaldson trout - <i>Oncorhynchus mykiss</i>	96 hours
	Acute EC50 190 µg/l Fresh water	Crustaceans - Water flea - <i>Simocephalus serrulatus</i> - Larvae	48 hours
	Acute EC50 3.7 µg/l Fresh water	Daphnia - Water flea - <i>Daphnia magna</i>	48 hours
	Acute LC50 1.9 ppb Fresh water	Fish - Rainbow trout,donaldson trout - <i>Oncorhynchus mykiss</i>	96 hours
	Chronic NOEC 0.3 ppb Fresh water	Daphnia - Water flea - <i>Daphnia magna</i>	21 days
	Chronic NOEC 1.01 ppb	Fish - Rainbow trout,donaldson trout - <i>Oncorhynchus mykiss</i>	32 days

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Conclusion/Summary : Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
<input checked="" type="checkbox"/> 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	4.1	25.7	Low

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 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.

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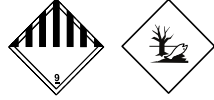
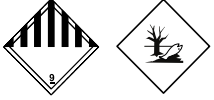
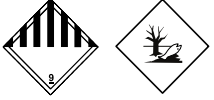
SECTION 13: Disposal considerations

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	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 	9 	9 
14.4 Packing group	III	III	III
14.5 Environmental hazards	Yes.	Yes.	Yes.

Additional information

Remarks: De minimis quantities

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.

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SECTION 15: Regulatory information

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

UK (GB)/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.

Ozone depleting substances

Not listed.

Prior Informed Consent (PIC)

Not listed.

Persistent Organic Pollutants

Not listed.

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

No listed substance

Label	:	<input checked="" type="checkbox"/> oligomycin A	Not applicable.
		XF Bam15	Not applicable.
		XF Rot/AA	Not applicable.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category
<input checked="" type="checkbox"/> Rot/AA E1

EU regulations

Industrial emissions (integrated pollution prevention and control) - Air : Not listed

Industrial emissions (integrated pollution prevention and control) - Water : Not listed

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

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.

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SECTION 15: Regulatory information

Inventory list

United States : Not determined.

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

Classification	Justification
XF Rot/AA Aquatic Acute 1, H400 Aquatic Chronic 1, H410	Calculation method Calculation method

Full text of abbreviated H statements

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

Full text of classifications

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

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