SAFETY DATA SHEET



Seahorse XF Cell Mito Stress Test Kit, Part Number 103015-100

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

1.1 Product identifier

Product name : Seahorse XF Cell Mito Stress Test Kit, Part Number 103015-100

Part no. (chemical kit) : 103015-100

Part no. : Oligomycin Not available.

FCCP Not available.
Antimycin A/ Rotenone Not available.

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

Material uses : For research use only. Not for use in diagnostic procedures (RUO).

 Oligomycin
 6 x 5.722 mg

 FCCP
 6 x 22.593 mg

 Antimycin A/ Rotenone
 6 x 5.725 mg

1.3 Details of the supplier of the safety data sheet

Agilent Technologies Manufacturing GmbH & Co. KG

Hewlett-Packard-Str. 8 76337 Waldbronn

Germany 0800 603 1000

e-mail address of person : pdl-msds author@agilent.com

responsible for this SDS

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 : Oligomycin Mixture FCCP Mixture

Antimycin A/ Rotenone Mixture

<u>Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]</u>
Antimycin A/
Rotenone

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

Ingredients of unknown

toxicity

: Oligomycin Percentage of the mixture consisting of ingredient(s) of

unknown acute inhalation toxicity: 1 - 10%

FCCP Percentage of the mixture consisting of ingredient(s) of

unknown acute inhalation toxicity: 1 - 10%

Antimycin A/ Rotenone 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.

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

2.2 Label elements

Date of issue/Date of revision : 21/04/2022 Date of previous issue : No previous validation Version : 1 1/20

SECTION 2: Hazards identification

Hazard pictograms : Antimycin A/ Rotenone



No signal word. Signal word : Oligomycin

FCCP No signal word.

Antimycin A/ Rotenone Warning

: Oligomycin No known significant effects or critical hazards. **Hazard statements**

FCCP No known significant effects or critical hazards. Antimycin A/ Rotenone H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention : Oligomycin Not applicable.

FCCP Not applicable.

Antimycin A/ Rotenone P273 - Avoid release to the environment.

Not applicable. Response : Oligomycin **FCCP** Not applicable.

Antimycin A/ Rotenone P391 - Collect spillage.

Not applicable.

: Oligomycin **Storage FCCP** Not applicable. Antimycin A/ Rotenone Not applicable.

Oligomycin Not applicable. **Disposal**

FCCP Not applicable.

P501 - Dispose of contents and container in accordance Antimycin A/ Rotenone with all local, regional, national and international regulations.

Hazardous ingredients Not applicable. : Oligomycin

FCCP Not applicable. Antimycin A/ Rotenone Not applicable.

Supplemental label Oligomycin Safety data sheet available on request.

> **FCCP** Contains isocyanates. May produce an allergic reaction.

Safety data sheet available on request.

Not applicable. Antimycin A/ Rotenone

Not applicable. **Annex XVII - Restrictions** : Oligomycin **FCCP** Not applicable. on the manufacture, Antimycin A/ Rotenone Not applicable. placing on the market and use of certain

mixtures and articles **Special packaging requirements**

dangerous substances,

Not applicable. Tactile warning of : Oligomycin danger **FCCP** Not applicable.

> Antimycin A/ Rotenone Not applicable.

2.3 Other hazards

elements

Product meets the This mixture does not contain any substances that are Oligomycin assessed to be a PBT or a vPvB. criteria for PBT or vPvB

FCCP This mixture does not contain any substances that are according to assessed to be a PBT or a vPvB. Regulation (EC) No.

Antimycin A/ Rotenone This mixture does not contain any substances that are

1907/2006, Annex XIII

assessed to be a PBT or a vPvB.

: Oligomycin Other hazards which do None known. not result in **FCCP** None known.

classification Antimycin A/ Rotenone None known.

Date of issue/Date of revision : 21/04/2022 Date of previous issue : No previous validation Version : 1 2/20

SECTION 3: Composition/information on ingredients

3.1 Substances : Oligomycin Mixture FCCP Mixture Antimycin A/ Rotenone Mixture

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
Oligomycin Sodium chloride	EC: 231-598-3 CAS: 7647-14-5	≤3	Eye Irrit. 2, H319	[1]
FCCP				
Sodium chloride	EC: 231-598-3 CAS: 7647-14-5	≤3	Eye Irrit. 2, H319	[1]
Antimycin A/ Rotenone				
Sodium chloride	EC: 231-598-3 CAS: 7647-14-5	≤3	Eye Irrit. 2, H319	[1]
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	≤0.3	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)	[1] [2]
			See Section 16 for the full text of the H statements declared above.	

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

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

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

FCCP

Antimycin A/ Rotenone

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. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

Date of issue/Date of revision : 21/04/2022 Date of previous issue : No previous validation Version : 1 3/20

SECTION 4: First aid measures

Inhalation : Oligomycin Remove victim to fresh air and keep at rest in a position

comfortable for breathing. Get medical attention if

symptoms occur.

FCCP Remove victim to fresh air and keep at rest in a position

comfortable for breathing. Get medical attention if

symptoms occur.

Antimycin A/ Rotenone Remove victim to fresh air and keep at rest in a position

comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a

collar, tie, belt or waistband.

Skin contact: Oligomycin Flush contaminated skin with plenty of water. Remove

contaminated clothing and shoes. Get medical attention if

symptoms occur.

FCCP Flush contaminated skin with plenty of water. Remove

contaminated clothing and shoes. Get medical attention if

symptoms occur.

Antimycin A/ Rotenone Flush contaminated skin with plenty of water. Remove

contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes

thoroughly before reuse.

Ingestion : Oligomycin 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.

FCCP 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.

Antimycin A/ Rotenone Wash out mouth with water. Remove dentures if any. If

material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen

tight clothing such as a collar, tie, belt or waistband.

No action shall be taken involving any personal risk or

without suitable training.

FCCP No action shall be taken involving any personal risk or

without suitable training.

Antimycin A/ Rotenone
No action shall be taken involving any personal risk or

without suitable training. It may be dangerous to the person

providing aid to give mouth-to-mouth resuscitation.

4.2 Most important symptoms and effects, both acute and delayed

: Oligomycin

Potential acute health effects

Eye contact

Protection of first-aiders

: Oligomycin No known significant effects or critical hazards. FCCP No known significant effects or critical hazards.

FCCP No known significant effects or critical hazards. Antimycin A/ Rotenone No known significant effects or critical hazards.

Date of issue/Date of revision : 21/04/2022 Date of previous issue : No previous validation Version : 1 4/20

SECTION 4: First aid measures

Inhalation : Oligomycin No known significant effects or critical hazards.

> **FCCP** No known significant effects or critical hazards. No known significant effects or critical hazards. Antimycin A/ Rotenone

Skin contact : Oligomycin No known significant effects or critical hazards.

FCCP No known significant effects or critical hazards.

Antimycin A/ Rotenone No known significant effects or critical hazards.

Ingestion : Oligomycin No known significant effects or critical hazards.

FCCP No known significant effects or critical hazards.

No known significant effects or critical hazards. Antimycin A/ Rotenone

Over-exposure signs/symptoms

Eye contact : Oligomycin No specific data.

FCCP No specific data. Antimycin A/ Rotenone No specific data.

Inhalation : Oligomycin No specific data.

FCCP No specific data. Antimycin A/ Rotenone No specific data.

Skin contact : Oligomycin No specific data. **FCCP** No specific data.

Antimycin A/ Rotenone No specific data. Ingestion : Oligomycin No specific data. **FCCP** No specific data.

No specific data. Antimycin A/ Rotenone

4.3 Indication of any immediate medical attention and special treatment needed

FCCP

Notes to physician : Oligomycin 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. Antimycin A/ Rotenone Treat symptomatically. Contact poison treatment specialist

immediately if large quantities have been ingested or inhaled.

No specific treatment. **Specific treatments** : Oligomycin

FCCP No specific treatment. Antimycin A/ Rotenone No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing Use an extinguishing agent suitable for the surrounding fire. : Oligomycin media

Use an extinguishing agent suitable for the surrounding fire. **FCCP** Antimycin A/ Rotenone Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing Oligomycin None known.

FCCP None known. media Antimycin A/ Rotenone None known.

5.2 Special hazards arising from the substance or mixture

Oligomycin No specific fire or explosion hazard. **Hazards from the FCCP** No specific fire or explosion hazard. substance or mixture

> This material is very toxic to aquatic life with long lasting Antimycin A/ Rotenone

effects. Fire water contaminated with this material must be contained and prevented from being discharged to any

waterway, sewer or drain.

Hazardous combustion

products

: Oligomycin

Decomposition products may include the following materials:

halogenated compounds

metal oxide/oxides

FCCP Decomposition products may include the following materials:

carbon dioxide carbon monoxide

halogenated compounds

Date of issue/Date of revision Date of previous issue : 21/04/2022 : No previous validation Version : 1 5/20

SECTION 5: Firefighting measures

metal oxide/oxides

Antimycin A/ Rotenone Decomposition products may include the following materials:

halogenated compounds metal oxide/oxides

5.3 Advice for firefighters

Special precautions for

fire-fighters

: Oligomycin

FCCP

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.

Antimycin A/ Rotenone 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

: Oligomycin

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.

FCCP 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.

Antimycin A/ Rotenone 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

For non-emergency personnel

: Oligomycin

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.

FCCP 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.

Antimycin A/ Rotenone 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. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal

protective equipment.

For emergency responders

: Oligomycin

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".

FCCP 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".

Date of issue/Date of revision : 21/04/2022 Date of previous issue : No previous validation Version : 1 6/20

SECTION 6: Accidental release measures

Antimycin A/ Rotenone

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

: Oligomycin

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).

FCCP 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).

Antimycin A/ Rotenone
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 : Oligomycin 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.

FCCP 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.

Antimycin A/ Rotenone 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 : Oli

: Oligomycin Put on appropriate personal protective equipment (see

Section 8).

FCCP Put on appropriate personal protective equipment (see

Section 8).

Antimycin A/ Rotenone 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

: Oligomycin

FCCP

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.

Date of issue/Date of revision : 21/04/2022 Date of previous issue : No previous validation Version : 1 7/20

SECTION 7: Handling and storage

Antimycin A/ Rotenone

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

Storage : Oligomycin

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.

FCCP 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.

Antimycin A/ Rotenone 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

	Notification and MAPP threshold	Safety report threshold
Antimycin A/ Rotenone	100 tonne	200 tonne

7.3 Specific end use(s)

Recommendations: Oligomycin Industrial applications, Professional applications.

FCCP Industrial applications, Professional applications.

Antimycin A/ Rotenone Industrial applications, Professional applications.

Industrial sector specific : Oligomycin Not available.

solutions FCCP Not available.
Antimycin A/ Rotenone Not available.

Date of issue/Date of revision : 21/04/2022 Date of previous issue : No previous validation Version : 1 8/20

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
Antimycin A/ Rotenone (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	NAOSH (Ireland, 1/2020). OELV-8hr: 5 mg/m³ 8 hours.

Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. 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

Product/ingredient name	Type	Exposure	Value	Population	Effects
Oligomycin					
Sodium chloride	DNEL	Short term Oral	126.65 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term Oral	126.65 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Short term Dermal	126.65 mg/	General	Systemic
	DAIE		kg bw/day	population	0
	DNEL	Long term Dermal	126.65 mg/	General	Systemic
	DNEL	Short term Dermal	kg bw/day 295.52 mg/	population Workers	Systemia
	DINEL	Short term Dermai	kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	295.52 mg/	Workers	Systemic
	DIVLL	Long torm Dermai	kg bw/day	WOIKCIS	Oysterine
	DNEL	Short term	443.28 mg/	General	Systemic
	J.122	Inhalation	m ³	population	- Cycloniic
	DNEL	Long term	443.28 mg/	General	Systemic
		Inhalation	m³	population	
	DNEL	Short term	2068.62	Workers	Systemic
		Inhalation	mg/m³		
	DNEL	Long term	2068.62	Workers	Systemic
		Inhalation	mg/m³		
5005					
FCCP	DNE	Ob t t O I	100.05/	0	0
Sodium chloride	DNEL	Short term Oral	126.65 mg/	General	Systemic
	DNEL	Long torm Oral	kg bw/day 126.65 mg/	population General	Systemia
	DINEL	Long term Oral	kg bw/day	population	Systemic
	DNEL	Short term Dermal	126.65 mg/	General	Systemic
	DIVLE	Chort term Bernial	kg bw/day	population	Gyotolillo
	DNEL	Long term Dermal	126.65 mg/	General	Systemic
			kg bw/day	population	- John
	DNEL	Short term Dermal	295.52 mg/	Workers	Systemic
			kg bw/day		
	DNEL	Long term Dermal	295.52 mg/	Workers	Systemic
			kg bw/day		
	DNEL	Short term	443.28 mg/	General	Systemic
		Inhalation	m³	population	
	DNEL	Long term	443.28 mg/	General	Systemic
Date of issue/Date of revision : 21/04/3	2022 Dat	te of previous issue	: No previous	s validation Vers	ion :1 9/20

Date of issue/Date of revision : 21/04/2022 Date of previous issue : No previous validation Version : 1 9/20

SECTION 8: Exposure controls/personal protection

	DNEL	Inhalation Short term	m³ 2068.62	population Workers	Systemic
	DINEL	Inhalation	mg/m ³	VVOIKEIS	Systemic
	DNEL	Long term	2068.62	Workers	Systemic
		Inhalation	mg/m³	Workoro	Gyotomio
Antimycin A/ Rotenone					
Sodium chloride	DNEL	Short term Oral	126.65 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term Oral	126.65 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Short term Dermal	126.65 mg/	General	Systemic
	DAIEI	l t D	kg bw/day	population	04:-
	DNEL	Long term Dermal	126.65 mg/ kg bw/day	General population	Systemic
	DNEL	Short term Dermal	295.52 mg/	Workers	Systemic
	DIVLL	Onort term Dermai	kg bw/day	VVOIRCIS	Oysternic
	DNEL	Long term Dermal	295.52 mg/	Workers	Systemic
			kg bw/day		, , , , , , , , , , , , , , , , , , , ,
	DNEL	Short term	443.28 mg/	General	Systemic
		Inhalation	m³	population	
	DNEL	Long term	443.28 mg/	General	Systemic
		Inhalation	m³	population	
	DNEL	Short term	2068.62	Workers	Systemic
		Inhalation	mg/m³		
	DNEL	Long term	2068.62	Workers	Systemic
		Inhalation	mg/m³		

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 sideshields.

Skin protection

Hand protection

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

Body protection

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

Other skin protection

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

Date of issue/Date of revision : 21/04/2022 Date of previous issue : No previous validation Version : 1 10/20

SECTION 8: Exposure controls/personal protection

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

_								
Δ	n	n	Α	а	ra	n	ce	

Physical state : Oligomycin Solid.

FCCP Solid.
Antimycin A/ Rotenone Solid.

Colour : Oligomycin White.

FCCP Pale colour. / Yellow.
Antimycin A/ Rotenone White.

Antimycin A/ Rotenone White.

Odour : Oligomycin Odourless.

FCCP Odourless.
Antimycin A/ Rotenone Odourless.

Odour threshold : Oligomycin Not available.

FCCP Not available.
Antimycin A/ Rotenone Not available.

Melting point/freezing : Oligomycin Not available.

Point FCCP Not available.

Not available.

Antimycin A/ Rotenone Not available.

Initial boiling point and boiling range : Oligomycin Not available.

FCCP Not available.

Antimycin A/ Rotenone Not available.

Flammability (solid, gas) : Oligomycin Not available.
FCCP Not available.
Antimycin A/ Rotenone Not available.

Upper/lower flammability : Oligomycin Not applicable.
or explosive limits FCCP Not applicable.

Antimycin A/ Rotenone Not applicable.

Flash point : Oligomycin Not applicable.

FCCP Not applicable.

Antimycin A/ Rotenone Not applicable.

Auto-ignition: OligomycinNot applicable.temperatureFCCPNot applicable.Antimycin A/ RotenoneNot applicable.

Decomposition : Oligomycin Not available. temperature FCCP Not available.

Antimycin A/ Rotenone Not available.

PH : Oligomycin Not available.

FCCP Not available.

Antimycin A/ Rotenone Not available.

Viscosity : Oligomycin Not applicable.
FCCP Not applicable.

Antimycin A/ Rotenone Not applicable.

Solubility(ies) : Oligomycin Not available.

FCCP Not available.

Antimycin A/ Rotenone Not available.

Partition coefficient: n-octanol/water

Date of issue/Date of revision : 21/04/2022 Date of previous issue : No previous validation Version : 1 11/20

SECTION 9: Physical and chemical properties

Oligomycin
FCCP
Antimycin A/ Rotenone
Oligomycin
FCCP
Antimycin A/ Rotenone
Oligomycin
FCCP
Antimycin A/ Rotenone
Oligomycin
Antimycin A/ Rotenone
Oligomycin
Not available.
Not available.
Not available.

Evaporation rate : Oligomycin Not available.
FCCP Not available.
Antimycin A/ Rotenone Not available.

Antimycin A/ Rotenone

: Oligomycin Not available. FCCP Not available.

Vapour density: OligomycinNot applicable.FCCPNot applicable.

Antimycin A/ Rotenone Not applicable.

Oligomycin Not available.

Oxidising properties : Oligomycin Not available.
FCCP Not available.
Antimycin A/ Rotenone Not available.

Particle characteristics

Vapour pressure

Relative density

Median particle size: OligomycinNot available.FCCPNot available.

Antimycin A/ Rotenone Not available.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

product or its ingredients.

FCCP No specific test data related to reactivity available for this

Not available.

product or its ingredients.

Antimycin A/ Rotenone No specific test data related to reactivity available for this

product or its ingredients.

10.2 Chemical stability : Oligomycin The product is stable.

FCCP The product is stable.
Antimycin A/ Rotenone The product is stable.

10.3 Possibility of : Oligomycin Under normal conditions of storage and use, hazardous

hazardous reactions reactions will not occur.

FCCP Under normal conditions of storage and use, hazardous

reactions will not occur.

Antimycin A/ Rotenone Under normal conditions of storage and use, hazardous

reactions will not occur.

10.4 Conditions to avoid : Oligomycin No specific data. FCCP No specific data.

Antimycin A/ Rotenone No specific data.

10.5 Incompatible : Oligomycin May react or be incompatible with oxidising materials. **materials** FCCP May react or be incompatible with oxidising materials.

Antimycin A/ Rotenone May react or be incompatible with oxidising materials.

May react or be incompatible with oxidising materials.

Date of issue/Date of revision: 21/04/2022Date of previous issue: No previous validationVersion: 1

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830 - Ireland

Seahorse XF Cell Mito Stress Test Kit, Part Number 103015-100

SECTION 10: Stability and reactivity

10.6 Hazardous decomposition products

: Oligomycin

FCCP

Under normal conditions of storage and use, hazardous

decomposition products should not be produced.

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Antimycin A/ Rotenone 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
Oligomycin Sodium chloride	LD50 Oral	Rat	3000 mg/kg	-
FCCP Sodium chloride	LD50 Oral	Rat	3000 mg/kg	-
Antimycin A/ Rotenone Sodium chloride 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 LD50 Oral	Rat Rat Rat	3000 mg/kg 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)
Oligomycin					
Sodium chloride	3000	N/A	N/A	N/A	N/A
FCCP					
Sodium chloride	3000	N/A	N/A	N/A	N/A
Antimycin A/ Rotenone					
Antimycin A/ Rotenone	9000.9	N/A	N/A	N/A	N/A
Sodium chloride	3000	N/A	N/A	N/A	N/A
Antimycin A	28	N/A	N/A	N/A	N/A
(2R,6aS,12aS)-1,2,6,6a,12,12a-hexahydro- 2-isopropenyl-8,9-dimethoxychromeno[3,4-b]furo [2,3-h]chromen-6-one	100	N/A	N/A	N/A	N/A

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Oligomycin					
Sodium chloride	Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-
	Eyes - Moderate irritant	Rabbit	-	10 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
FCCP					
Sodium chloride	Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-
	Eyes - Moderate irritant Skin - Mild irritant	Rabbit Rabbit	-	10 mg 24 hours 500	-

Date of issue/Date of revision : 21/04/2022 Date of previous issue : No previous validation Version :1 13/20

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830 - Ireland

Seahorse XF Cell Mito Stress Test Kit, Part Number 103015-100

SECTION 11: Toxicological information

				mg	
Antimycin A/ Rotenone					
Sodium chloride	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
	Eyes - Moderate irritant	Rabbit	_	mg 10 mg	_
	Skin - Mild irritant	Rabbit	_	24 hours 500	-
				mg	
(2R,6aS,12aS)-1,2,6,6a,	Eyes - Mild irritant	Rabbit	-	1 %	-
12,12a-hexahydro- 2-isopropenyl-					
8,9-dimethoxychromeno					
[3,4-b]furo[2,3-h]chromen-					
6-one					

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
Antimycin A/ Rotenone (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 Not available. Oligomycin **FCCP** Not available. routes of exposure Not available.

Antimycin A/ Rotenone

Potential acute health effects

Inhalation : Oligomycin No known significant effects or critical hazards.

No known significant effects or critical hazards. **FCCP** No known significant effects or critical hazards. Antimycin A/ Rotenone

Ingestion Oligomycin No known significant effects or critical hazards.

> **FCCP** No known significant effects or critical hazards. No known significant effects or critical hazards. Antimycin A/ Rotenone

No known significant effects or critical hazards. **Skin contact** : Oligomycin

> **FCCP** No known significant effects or critical hazards. No known significant effects or critical hazards. Antimycin A/ Rotenone

No known significant effects or critical hazards. **Eye contact** : Oligomycin **FCCP** No known significant effects or critical hazards.

Antimycin A/ Rotenone No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation : Oligomycin No specific data.

FCCP No specific data. No specific data. Antimycin A/ Rotenone

Date of issue/Date of revision : 21/04/2022 Date of previous issue : No previous validation Version: 1 14/20

SECTION 11: Toxicological information

Ingestion : Oligomycin No specific data.

FCCP No specific data.
Antimycin A/ Rotenone No specific data.
Oligomycin No specific data.

FCCP No specific data.
Antimycin A/ Rotenone No specific data.
Oligomycin No specific data.

FCCP No specific data.
Antimycin A/ Rotenone No specific data.

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

Short term exposure

Potential immediate

effects

Skin contact

Eye contact

: Not available.

Potential delayed

effects

: Not available.

Long term exposure

Potential immediate

Not available.

effects

Potential delayed

effects

: Not available.

Potential chronic health effects

General : Oligomycin No known significant effects or critical hazards. **FCCP** No known significant effects or critical hazards. Antimycin A/ Rotenone No known significant effects or critical hazards. No known significant effects or critical hazards. Carcinogenicity : Oligomycin No known significant effects or critical hazards. **FCCP** No known significant effects or critical hazards. Antimycin A/ Rotenone No known significant effects or critical hazards. Mutagenicity Oligomycin **FCCP** No known significant effects or critical hazards. No known significant effects or critical hazards. Antimycin A/ Rotenone No known significant effects or critical hazards. Reproductive toxicity Oligomycin **FCCP** No known significant effects or critical hazards.

Antimycin A/ Rotenone
SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Oligomycin			
Sodium chloride	Acute EC50 2430000 µg/l Fresh water	Algae - Navicula seminulum	96 hours
	Acute EC50 519.6 mg/l Fresh water	Crustaceans - Cypris subglobosa	48 hours
	Acute EC50 402.6 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute IC50 6.87 g/L Fresh water	Aquatic plants - Lemna minor	96 hours
	Acute LC50 1000000 μg/l Fresh water	Fish - Morone saxatilis - Larvae	96 hours
	Chronic LC10 781 mg/l Fresh water	Crustaceans - Hyalella azteca - Juvenile (Fledgling, Hatchling, Weanling)	3 weeks
	Chronic NOEC 6 g/L Fresh water	Aquatic plants - Lemna minor	96 hours
	Chronic NOEC 0.314 g/L Fresh water	Daphnia - Daphnia pulex	21 days
	Chronic NOEC 100 mg/l Fresh water	Fish - Gambusia holbrooki - Adult	8 weeks
FCCP			
Sodium chloride	Acute EC50 2430000 μg/l Fresh water Acute EC50 519.6 mg/l Fresh water	Algae - Navicula seminulum Crustaceans - Cypris subglobosa	96 hours 48 hours

No known significant effects or critical hazards.

Date of issue/Date of revision : 21/04/2022 Date of previous issue : No previous validation Version : 1 15/20

SECTION 12: Ecological information

ocorion iz. Ecologi			
	Acute EC50 402.6 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute IC50 6.87 g/L Fresh water	Aquatic plants - Lemna minor	96 hours
	Acute LC50 1000000 µg/l Fresh water	Fish - Morone saxatilis - Larvae	96 hours
	Chronic LC10 781 mg/l Fresh water	Crustaceans - Hyalella azteca -	3 weeks
	_	Juvenile (Fledgling, Hatchling,	
		Weanling)	
	Chronic NOEC 6 g/L Fresh water	Aquatic plants - Lemna minor	96 hours
	Chronic NOEC 0.314 g/L Fresh water	Daphnia - Daphnia pulex	21 days
	Chronic NOEC 100 mg/l Fresh water	Fish - Gambusia holbrooki -	8 weeks
		Adult	
Antimycin A/ Rotenone			
Sodium chloride	Acute EC50 2430000 µg/l Fresh water	Algae - Navicula seminulum	96 hours
Codiain ornarias	Acute EC50 519.6 mg/l Fresh water	Crustaceans - Cypris	48 hours
		subglobosa	
	Acute EC50 402.6 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute IC50 6.87 g/L Fresh water	Aquatic plants - Lemna minor	96 hours
	Acute LC50 1000000 µg/l Fresh water	Fish - Morone saxatilis - Larvae	96 hours
	Chronic LC10 781 mg/l Fresh water	Crustaceans - Hyalella azteca -	3 weeks
		Juvenile (Fledgling, Hatchling,	
		Weanling)	
	Chronic NOEC 6 g/L Fresh water	Aquatic plants - Lemna minor	96 hours
	Chronic NOEC 0.314 g/L Fresh water	Daphnia - Daphnia pulex	21 days
	Chronic NOEC 100 mg/l Fresh water	Fish - Gambusia holbrooki -	8 weeks
		Adult	
Antimycin A	Acute EC50 0.024 ppm Marine water	Crustaceans - Penaeus	48 hours
		duorarum	
	Acute LC50 0.000019 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
(2R,6aS,12aS)-1,2,6,6a,	Acute EC50 190 µg/l Fresh water	Crustaceans - Simocephalus	48 hours
12,12a-hexahydro-		serrulatus - Larvae	
2-isopropenyl-			
8,9-dimethoxychromeno			
[3,4-b]furo[2,3-h]chromen-			
6-one			40.1
	Acute EC50 3.7 μg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1.9 ppb Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 0.3 ppb Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 1.01 ppb	Fish - Oncorhynchus mykiss	32 days

12.2 Persistence and degradability

Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Antimycin A/ Rotenone (2R,6aS,12aS)-1,2,6,6a, 12,12a-hexahydro- 2-isopropenyl- 8,9-dimethoxychromeno [3,4-b]furo[2,3-h]chromen- 6-one	4.1	25.7	low

12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility : Not available.

Date of issue/Date of revision : 21/04/2022 Date of previous issue : No previous validation Version : 1 16/20

SECTION 12: Ecological information

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

Packaging

Methods of disposal

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

: 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 spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	IMDG	IATA
14.1 UN number	UN3316	UN3316	UN3316
14.2 UN proper shipping name	CHEMICAL KIT	CHEMICAL KIT	Chemical kit
14.3 Transport hazard class(es)	9	9	9
14.4 Packing group	II	II	II
14.5 Environmental hazards	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.

Additional information

Remarks: De minimis quantities

ADR/RID :

: The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.

Hazard identification number 90 Limited quantity See SP 251 Special provisions 251, 340, 671

Tunnel code (E)

IMDG : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.

Emergency schedules F-A, _S-P_ Special provisions 251, 340

Date of issue/Date of revision : 21/04/2022 Date of previous issue : No previous validation Version : 1 17/20

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830 - Ireland

Seahorse XF Cell Mito Stress Test Kit, Part Number 103015-100

SECTION 14: Transport information

IATA

: The environmentally hazardous substance mark may appear if required by other transportation regulations.

Quantity limitation Passenger and Cargo Aircraft: 10 kg. Packaging instructions: 960. Cargo Aircraft Only: 10 kg. Packaging instructions: 960. Limited Quantities - Passenger

Aircraft: 1 kg. Packaging instructions: Y960.

Special provisions A44, A163

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

Label : Oligomycin Not applicable.

FCCP Not applicable.
Antimycin A/ Rotenone 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

Category

Antimycin A/ Rotenone

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)

Date of issue/Date of revision : 21/04/2022 Date of previous issue : No previous validation Version :1 18/20

SECTION 15: Regulatory information

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

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

Japan : Japan inventory (CSCL): Not determined.

Japan inventory (ISHL): Not determined.

: Not determined. **New Zealand 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.

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]

Classification	Justification
,	Calculation method Calculation method

Full text of abbreviated H statements

Oligomycin H319	Causes serious eye irritation.
FCCP H319	Causes serious eye irritation.
Antimycin A/ Rotenone H300 H301 H315 H319	Fatal if swallowed. Toxic if swallowed. Causes skin irritation. Causes serious eye irritation.
H335	May cause respiratory irritation.

Date of issue/Date of revision : 21/04/2022 Date of previous issue : No previous validation Version : 1 19/20

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830 - Ireland

Seahorse XF Cell Mito Stress Test Kit, Part Number 103015-100	
SECTION 16: Other information	
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS]

Full text of classifications [CLP/GHS]	
Oligomycin Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
FCCP Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Antimycin A/ Rotenone Acute Tox. 2 Acute Tox. 3 Aquatic Acute 1 Aquatic Chronic 1 Eye Irrit. 2 Skin Irrit. 2 STOT SE 3	ACUTE TOXICITY - Category 2 ACUTE TOXICITY - Category 3 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 SKIN CORROSION/IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

Date of issue/ Date of

revision

Date of previous issue : No previous validation

: 21/04/2022

Version : 1

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Date of issue/Date of revision: 21/04/2022Date of previous issue: No previous validationVersion: 1